

19971030.qrp v00\_n894.qrs.971030

Date: Thu, 30 Oct 1997 19:03:14 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 894

QRP-L Digest 894

Topics covered in this issue include:

- 1) [29902] FOX: 00PS! Forgot Frequency  
by "Steven Pituch" <n2mnn@spacegate.com>
- 2) [29903] Re: 2222 Design contest questions  
by Bill Meahan <www@wa8tztg.mi.org>
- 3) [29903] Re: 2222 Design contest questions  
by "J. Skalski" <jskalski@acsu.buffalo.edu>
- 4) [29904] Re: 2222 Design contest questions  
by kd7s@psnw.com (Bill Jones)
- 5) [29905] The already infamous 2222 design contest  
by bruce muscolino <w6toy@pop.erols.com>
- 6) [29906] Carolina Windom opinions  
by "JEFFREY MICHAEL POULIN" <jpoulin@erols.com>
- 7) [29907] Teflon hookup wire address?  
by "Ken Bishop, WD4AAI" <wd4aai@bellsouth.net>
- 8) [29908] StarShip NC 2N2222A  
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 9) [29909] Re: 2222 Design contest questions  
by Steven Weber <kd1jv@moose.ncia.net>
- 10) [29910] FOX;N0UR  
by Jim/N0UR <LAGESON@worldnet.att.net>
- 11) [29910] Re: FOX N/T Monday  
by dhlaute@juno.com (David H. Lauten)
- 12) [29911] RE>Norcal2222  
by herr@ridgecrest.ca.us (Michael Herr)
- 13) [29911] Re: ICOM Rigs - QRP  
by "Dave Redfearn" <n4elm@ipass.net>
- 14) [29912] Re: Norcal 2222 Design Contest  
by tahrens1@juno.com
- 15) [29913] Re: Spots  
by tahrens1@juno.com
- 16) [29914] Re: The already infamous 2222 design contest  
by n5inz@juno.com (John M Andrews)
- 17) [29915] Re: Norcal 2N2222 Contest  
by Dave Fifield <fifield@pacbell.net>
- 18) [29916] Re: StarShip NC 2N2222A  
by Paul Harden <pharden@aoc.nrao.edu>
- 19) [29917] NorCal 2222 rules (again) and comments on the comments...

- by svecbrdk@well.com (L.Svec,W.Burdick)
- 20) [29918] Re: 455kHz ceramic filter differences  
by Leon Heller <leon@lfheller.demon.co.uk>
- 21) [29918] QRP on "non-QRP" rigs  
by Dave.Ackrill@LotusXchgPG.powergen.co.uk
- 22) [29919] 10 GHz WBFM  
by Dave.Ackrill@LotusXchgPG.powergen.co.uk
- 23) [29919] 2N2222 rig  
by "Glen Torr" <glentorr@ozemail.com.au>
- 24) [29920] Pse information Amidon  
by Osvaldo DAngelo <lu7fdz@biblielle.ros.com.ar>
- 25) [29921] 2N2222 Haggis re-cycling Press Release!  
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 26) [29922] CW and JAG  
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 27) [29923] Loading Coil Form  
by "Junius B. Fox" <w5hir@mail.phoenix.net>
- 28) [29924] Re: Norcal 2N2222 Contest  
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 29) [29925] Norcal paddle notes  
by PDouglas12@aol.com
- 30) [29926] FOX: Week 4 (long)  
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 31) [29927] Re: ICOM Rigs - QRP  
by Bob Patten <n4bp@shadow.net>
- 32) [29928] 2-WIRE YAGI??  
by ARDUJENSKI@aol.com
- 33) [29929] Oscillator using MAR/ERA  
by Paolo Sassoli <sassoli@iilwh10.settimo.italtel.it>
- 34) [29930] Saturday NorTex Meeting  
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 35) [29930] Re: NVIS  
by JCoote@aol.com
- 36) [29931] VLF sources  
by n4so@juno.com (charles k brown)
- 37) [29932] RE: Teflon hookup wire address?  
by "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.enet.dec.com>
- 38) [29933] Resistor  
by Philip Karras 827-2956 <P XK4@CDRH.FDA.GOV>
- 39) [29934] CQrp Meeting  
by Steve Bornstein <saborns@freenet.columbus.oh.us>
- 40) [29935] Re: Resistor  
by "Kevin Muenzler - WB5RUE" <wb5rue@stic.net>
- 41) [29936] Battery As Power Source  
by John Bohnert <johnb@elmhurst.edu>
- 42) [29937] Re: Pixie2 Revision File  
by "Kevin F. Glynn" <kfglynn@prodigy.net>
- 43) [29938] 2N2222 Transceiver feasibility

by ji3m@maxwell.com (James R. Duffey)  
44) [29938] Re: 2222 Design contest questions  
by Brian Kassel <bkassel@dancris.com>  
45) [29939] FOX SCHEDULE GENERAL+  
by adams@chuck.dallas.sgi.com (Chuck Adams)  
46) [29940] 2222 thingie  
by Steven Weber <kd1jv@moose.ncia.net>  
47) [29941] 2222: design  
by torell@sicom.com (Kent Torell)  
48) [29942] Portland/Vancouver QRP meeting  
by "Michael Fletcher" <kl7ixi@mailcity.com>  
49) [29943] Portland/Vancouver QRP meeting  
by "Michael Fletcher" <kl7ixi@mailcity.com>  
50) [29944] Re: 2-WIRE YAGI??  
by David Bixler W0CH <qrp@netins.net>  
51) [29945] 2N2222 &c. (LONG)  
by gsurrency@juno.com (Gary L L Surrency)  
52) [29946] 38 Special cases  
by Patrick Franzis <franzis@esun19.gdc.com>  
53) [29946] 2222: Audio Amplifier Parts Hint  
by Brian Kassel <bkassel@dancris.com>  
54) [29947] Flashlight CW - JAG  
by Rick Sealey <rsealey@InfoAve.Net>  
55) [29948] Re: Norcal paddle notes  
by "j.w. thornton" <dub@oklahoma.net>  
56) [29949] NOVICE FOX SCHEDULE  
by adams@chuck.dallas.sgi.com (Chuck Adams)  
57) [29950] 2N3055 Current Share Resistors  
by David Shalita <af389@lafn.org>  
58) [29951] Flashlight Morse Story  
by Roger Hightower <n7kt@dancris.com>  
59) [29951] Re: Norcal paddle notes  
by Roger Hightower <n7kt@dancris.com>  
60) [29951] Re: NOVICE FOX SCHEDULE  
by Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>  
61) [29952] 38S Enclosures: Where Are They??!!??  
by doug hauff <slmachco@fix.net>  
62) [29952] JAG CW  
by "Michael, Dana A" <damichael@amp.com>  
63) [29953] Antenna Help  
by Brad Mugleston <bmug@gwl.com>  
64) [29954] 2 EL WIRE BEAM  
by "Michael, Dana A" <damichael@amp.com>  
65) [29955] FOX SCORES 9/1/97  
by adams@chuck.dallas.sgi.com (Chuck Adams)  
66) [29954] Re: Norcal paddle notes  
by adams@chuck.dallas.sgi.com (Chuck Adams)  
67) [29954] NEW E-MAIL ADDRESS

- by WA8JPR@aol.com
- 68) [29954] RE: 38 Special cases  
by n4js@amsat.org
- 69) [29954] NOVICE/TECH SCORES FOX  
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 70) [29955] No Change in NorCal 2222 Contest Rules  
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 71) [29956] Re: 2222 Design contest questions  
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 72) [29957] Re: NOVICE FOX SCHEDULE  
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 73) [29958] Re: NOVICE FOX SCHEDULE  
by "W. D. Lindsey" <70511.3041@compuserve.com>
- 74) [29959] SS Logs  
by "Christopher Moore" <christopher.moore@snet.net>
- 75) [29960] "Black Widow" antenna  
by Stephen Gibson <SWGibson@worldnet.att.net>
- 76) [29960] N4BP ALC QRP Power Adjuster  
by Bob Patten <n4bp@shadow.net>
- 77) [29961] CQC Meeting Saturday  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 78) [29962] Re: Resistor  
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 79) [29963] [Fwd: Flashlight Morse Story]  
by Roger Hightower <n7kt@dancris.com>
- 80) [29964] RE: Pixie2 Revision File  
by "Mark A. Arvidson" <arvidson@swbell.net>
- 81) [29965] Re:[Fwd: Flashlight Morse Story]  
by MH00PER@ccmail.dsccc.com
- 82) [29966] CQC Swap List  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 83) [29967] 2222 design ideas  
by Steven Weber <kd1jv@moose.ncia.net>
- 84) [29968] New QRP Contest - Claiming the Date!  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 85) [29968] Re: Norcal 2222 Design Contest  
by "Bob Edwards, W4ED" <w4ed@flash.net>
- 86) [29969] Where are the 2N2222 Transceiver Rules posted ?  
by Stanley Wilson <microres@crl.com>
- 87) [29969] Re: 2222 Design contest questions  
by "Bob Duckworth" <wb4mnf@atl.org>
- 88) [29969] Sweepstakes - If I could do it last year you can do it this year!  
by bruce muscolino <w6toy@pop.erols.com>
- 89) [29970] Re: Norcal 2N2222 Contest  
by bruce muscolino <w6toy@pop.erols.com>
- 90) [29971] Re: 2222 design ideas  
by bruce muscolino <w6toy@pop.erols.com>

- 91) [29972] 2222 Design Contest Offer  
by "HB Electronics (Bob Berlyn)" <hb\_elec@ids.net>
- 92) [29973] Re: 2222 design ideas  
by Ryan <ryans@willinet.net>
- 93) [29974] Re: 2222 design ideas  
by Ed Loranger <we6w@qsl.net>
- 94) [29974] Re: Armadillo scoring  
by Bob Hightower <ki7mn@dancris.com>
- 95) [29975] FOX: N/T Fox Tonight  
by "Steven Pituch" <n2mnn@spacegate.com>
- 96) [29976] Re: NOVICE/TECH SCORES FOX  
by Bob Hightower <ki7mn@dancris.com>
- 97) [29977] Browser TIMEZONE Variable...  
by Ed Loranger <we6w@qsl.net>

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Date: Wed, 29 Oct 1997 19:01:14 -0400  
From: "Steven Pituch" <n2mnn@spacegate.com>  
To: "QRP-L message" <qrp-l@Lehigh.EDU>  
Subject: [29902] FOX: 00PS! Forgot Frequency  
Message-ID: <0118a0700001ea7NS@spacegate.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Sorry, I forgot to mention the frequency.

For tomorrow night I will try 7.141 again with the option of moving between 7.137 to 7.145. I think its quieter up there. If anyone, anywhere, hears a broadcast station near me, let me know via e-mail, so I can move the frequency for my next Fox hunt.

John, W2MBY (was KC2CFZ)

-----  
Date: Wed, 29 Oct 1997 18:54:34 -0500  
From: Bill Meahan <www@wa8tztg.mi.org>  
To: qrp-l@Lehigh.EDU  
Subject: [29903] Re: 2222 Design contest questions  
Message-ID: <3457ccbb.wa8tztg@wa8tztg.mi.org>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Yep, I've already started on a "KWM-2222" design using my venerable KWM-2 as a source of inspiration. That and some vintage "early days of transistors" stuff still hanging around.

PNP's, we don't need no steenking PNP's! (But I sense a lot of toroids to wind!!) :-) :-) :-)

On 29 Oct 97 at 14:20, Michael A. Gipe wrote:

> Yes, it is certainly possible to build a transceiver without PNPs.  
> Tube rig designers never had the luxury of a complementary device.  
> Of course, the circuits will use things like transformers in places  
> where we wouldn't normally use them today.  
>  
--

Bill Meahan WA8TZG [www@wa8tzg.mi.org](mailto:www@wa8tzg.mi.org)  
ARRL, IMRA, QRP-L(#117), NorCal QRP (#407), G-QRP (#8468), MI-QRP (#M1458)  
All statements herein are worth exactly what you paid for them  
cat: a purr bearing mammal

-----  
Date: Wed, 29 Oct 1997 19:53:11 -0500 (EST)  
From: "J. Skalski" <[jskalski@acsu.buffalo.edu](mailto:jskalski@acsu.buffalo.edu)>  
To: "Hendricks, Doug" <[ki6ds@dpol.k12.ca.us](mailto:ki6ds@dpol.k12.ca.us)>  
Cc: Low Power Amateur Radio Discussion <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [29903] Re: 2222 Design contest questions  
Message-ID: <[Pine.GS0.3.96.971029195225.27293A-100000@xena.acsu.buffalo.edu](mailto:Pine.GS0.3.96.971029195225.27293A-100000@xena.acsu.buffalo.edu)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

A nice addition would be a 2N3904. Sort of a NPN cockroach.

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
Life member ARRL  
[jskalski@acsu.Buffalo.EDU](mailto:jskalski@acsu.Buffalo.EDU)

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Date: Wed, 29 Oct 1997 17:27:01 -0800 (PST)  
From: kd7s@psnw.com (Bill Jones)  
To: qrp-l@Lehigh.EDU  
Subject: [29904] Re: 2222 Design contest questions  
Message-ID: <199710300127.RAA14542@sierra.psnw.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

My vote is to leave things exactly as they started. No PNPs, no 3-terminal voltage regulators, no nothing except 2N2222's, diodes and passive components. Let's see what this group can do.

By the way, I'm not the least bit happy with the part about not getting extra points for a rig that looks good.

=====  
Bill Jones - KD7S <><  
Sanger, California  
Reply to kd7s@psnw.com  
=====

-----  
Date: Wed, 29 Oct 1997 20:31:14 -0500 (EST)  
From: bruce muscolino <w6toy@pop.erols.com>  
To: QRP-L@Lehigh.EDU  
Subject: [29905] The already infamous 2222 design contest  
Message-ID: <2.2.16.19971029212057.087705b2@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

OK, here's my vote. Leave it alone. You don't know if it's broke -- don't even think about trying to fix it?

It seems to me this is supposed to be a challenge -- if doing it all with 2N2222's isn't a challenge, please somebody, enlighten me as to what is?

You do know the ubiquitous 2N2222 does include a diode -- maybe it will work as a varactor. It's probably cheaper than a real one.

Also, to those of you who don't think you can make an audio amplifier with only an NPN device, Solid State Design for the Radio Amateur has at least one example of a direct coupled hi-gain amp used with a dc receiver. Oh, it won't work with 8 ohm phones. Aw shucks!

Bruce

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Date: Wed, 29 Oct 1997 21:16:32 -0500  
From: "JEFFREY MICHAEL POULIN" <jpoulin@erols.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [29906] Carolina Windom opinions  
Message-ID: <199710300216.VAA29736@smtp1.erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Folks: I am going to be putting up a new antenna for HF. I hope to get my General next month, so I will be looking for 80-10 meter coverage with all of the bandwidth for those bands. I have limited space. I am considering a Carolina Windom 80 Special from RadioWorks, which is 66 feet long. I should be able to get it up to about 25 to 30 feet high. (I know it will have less efficiency on 80 meters but it should still work there.)

I have a Ten-Tec Scout with the model 291 antenna tuner. I run qrp 90% of the time. The most I can run is 50 watts.

Any experience with this antenna or other suggestions would be helpful. I currently use a 40 meter dipole at about 15 feet at the highest (best I could do at the time.) Please feel free to e-mail me directly so I don't drive people crazy with stuff they already know.

Thanks in advance.

Jeff/KF4JSV QRP-L # 743

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Date: Wed, 29 Oct 1997 20:56:58 -0600  
From: "Ken Bishop, WD4AAI" <wd4aai@bellsouth.net>  
To: "qrp-l" <qrp-l@Lehigh.EDU>  
Subject: [29907] Teflon hookup wire address?  
Message-ID: <199710300300.WAA21607@mail.bhm.bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Does anyone have the address of the guy who posted here offering teflon hookup wire in different colors? I bought some and it was a good deal.



Unfortunately, due to a house fire, I no longer have the wire or the address. Thanks.

72/73 de Ken Bishop, WD4AAI  
ARRL, ARCI #9332, QRP-L #846, NORCAL

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Date: Thu, 30 Oct 1997 03:33:26 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-l@Lehigh.EDU  
Subject: [29908] StarShip NC 2N2222A  
Message-ID: <199710300333.DAA02979@chuck.dallas.sgi.com>

Gang,

Now this idea of a 2N2222(A) building contest is something exciting.  
:-) I'll be entering this years competition. This outta be fun boys  
and girls.

1. First place I went to was the Motorola Small-Signal Transistor Data Book.
2. Second place was 'Solid State Design for the Radio Amateur' by Wes Hayward, W7ZOI, and Doug DeMaw, W1FB. So if you have a copy you will need it to follow along on some stuff.
3. A pile of Ham Radio issues that I recently picked up.
4. Got out the Spice program and the file for the 2N2222A. If anyone wants the parameters, I can post. They have been on the list before and typically come with Spice or it's derivations.
5. Got the copy of Kielkowski's 'Spice Practical Device Modeling' with software to play with some of the models and circuits.
6. Got the protoboard out again.
7. Went to the web to BG Micro's home page to download the catalog to double check his prices on the 2N2222's and if I remember correctly they were 500 for about \$10 or in the ballpark. The net was slow and kept stalling

so gave up. The devices were house numbered S442 89 F 8248, so I guess if we use generic we gotta bring a sample and someone put it in a transistor checker and measure the polarity and the beta.....

and numerous other sources too many to name, but will if I find something of interest. Now those who have kept the old handbooks etc. will have a slight advantage over the new kids on the block. :-)

OK, here are some hints and pointers FYI from Solid State Design:

- a. Single transistor mixer, page 85, Figure 31.
- b. Single transistor IF amp, page 85, Figure 31.
- c. DC receiver page 75, Figure 10.
- d. Three-stage high-gain audio amp, page 76, Figure 11.
- e. and a bunch of VFOs that will work.

So, here's what I'll do after I get back from Bellvue WA in 10 days. I'll set up a page with schematics snippets and if others want to contribute send me email after Nov 10 and we'll figure out how to do it, most likely via fax and I'll use my plotting program to generate a circuit. I'll also link to other pages that do the same thing.

For those that can't surf, then we'll figure out another scheme. FAX, snail mail, .... whatever. You won't get left out. Also there will have to be some way for those that can't economically or personally get to Dayton to get a way to submit there rigs and get them there by carrier, etc.

Of course, there will be some sharing and cross checking and new values and testing going on for some time, so get ready for some postings group. But, there is expected to be some withholding of the outstanding ideas that will hopefully put a person in a position to wow the judge(s) and take first place. This is competition and to be remembered as a friendly game of wits and watts.

I've got the digital display worked out, the dual VFOs with memory, mode B keyer, and RIT. I assume that there are not and weight limits..... ;-) 50 in parallel in the final stage alone to get the 1.00W out..... :-) I don't want them running hot.

I can see the discussions getting into SuperHet vs Direct Conversion, VFO vs VXO, toroids vs IF cans, drift ..... How long is it to Dayton? Do I work the fox or work on the

rig? Work on the rig to work on the fox?

Enjoy the fun.....

Chuck Adams K5FO CP-60 adams@sgi.com

<http://reality.sgi.com/adams/index.html>

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Date: Wed, 29 Oct 1997 19:16:47  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@Lehigh.EDU  
Subject: [29909] Re: 2222 Design contest questions  
Message-ID: <3.0.1.16.19971029191647.127f26a4@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Wow, looks like this building contest is already a winner!

I know I was moaning about no PNP's yesterday, but allowing any other type of active ingredient sort of kills the whole spirit of just '2222's. Rathier than dilute the original concept and head down the slippery slope of "Creeping Socialism", I vote to stick to the original rules.

Later on we can have the "anything but IC's", "only SCR's", "nothing but Duct tape and bailing wire" building contests.

I like the idea of posting all the summited designs on the web, or maybe a few a month. I would also suggest a "mail in" catagory for DX stations or those who can not attend Dayton. Maybe those designs could just be posted on the web and voted on by people at large. (Although that might be better as a whole new kind of contest.. a qrp-l sponcered www design contest?)

In the mean time, I just could not wait and already started. Was up till 2 AM working on the first breadboard. I've already used 9 '2222's and haven't built the VFO, audio amp or anything in the Tx section yet. At first, I thought 22 transistors was more than enough, now I don't know. My design ain't gonna be the simplest one, or the smallest, but I'll tell ya, the Rx is looking like it's gonna be a hot one! (now, do I rip the audio xformers from that old six transistor radio or think of something else...?)

73,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

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Date: Wed, 29 Oct 1997 21:54:50 +0000  
From: Jim/N0UR <LAGESON@worldnet.att.net>  
To: qrp-l@Lehigh.EDU  
Subject: [29910] FOX;N0UR  
Message-ID: <19971029215448.AAA27790@LOCALNAME>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Well that was fun. Sorry to all the stations I did not work, I could hear signals in there but with the S-6 noise level I had last night I just couldn't pull some out. My goal was to work'em as fast as I could, but all the repeats I kept asking for really slowed me down. Another problem is everyone was right there at 0200Z all over each other calling me, and I spent the last half hour calling CQ. Next time all stations east of the Mississippi get on from 0200 to 0300 and all stations west of the Mississippi try after 0300 (just kidding). I tried to use NA contest software to log but too many exchange items to fit so I logged by hand, now if I just can read what I wrote down last night. I will get a log out soon.

Next time I think I will go "afield" and get away from all this noise I have here, maybe we can break 100 Q's, I sure didn't do it last night.

Get out and work some Sweepstakes contest stations this weekend, listen for me!!! I just finished putting up a 3 el yagi last weekend so I can't wait to see how it plays, my first SS with something more than wire.

72's and Thanks for tracking me down last night, we'll do better next time.

Jim...N0UR #799 (two better than 599)

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Date: Wed, 29 Oct 1997 23:02:31 EST  
From: dh1auten@juno.com (David H. Lauten)  
To: QRP-L@Lehigh.EDU  
Subject: [29910] Re: FOX N/T Monday  
Message-ID: <19971029.204516.7687.0.DHLAUTEN@juno.com>

Here are the results of the October 28 0200-0400 UTC N/T Foxhunt:

Time	Call	RST (His/Mine)	Name	State	NR/Power
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Frequency: 7.1174 Mhz.

0217	KC2CFZ	559/559	(John)	NJ	
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0224	WB9HFK	559/559	Mark	( IL)	
0229	AE4GX	559/559	Sam	GA	4(?)356
0232	K0EVZ	559/569	(Wilford	MN)	
0235	N2MNN	559/559	(Steve)	NJ	
0251	N1QQV	559/559	Ken	CT	
0258	N4SO	559/579	(Charles	AL)	

Frequency: 7.1122

0319	K4PYM	569/569	(George)	SC	1297
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Frequency: 7.1226

0336	N3YSI	559/559	Paul	(PA)	
0359	KF2PHY	539/559	Nick	NY	

#### NOTES:

1. Thanks for all who were listening and trying to reach me.
2. While the N/T band conditions were not great, they were much better than Oct 7.
3. I was using a HW-9 at 5 watts with a 33 ft ground mounted vertical with 24 radials.
4. The propagation generally favored N-S while on Oct 7 it was more E-W.
5. The information in brackets was provided from the QRZ Database.
6. I had a GREAT time and look forward to being the fox Nov 4, 0200-0400 UTC

72 de David Lauten, KF4HAW  
Conway, SC (near Myrtle Beach)

-----

Date: Wed, 29 Oct 1997 20:05:27 -0800 (PST)  
From: herr@ridgecrest.ca.us (Michael Herr)  
To: qrp-l@Lehigh.EDU  
Subject: [29911] RE>Norcal2222  
Message-ID: <v01530500630c4aac2e29@[199.120.150.137]>  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Gang,

Well, I'm not sure if I can claim the first NorCal2222 rig or not, but I do have one sitting in front of me at the moment and yet it can be done!. I built it a couple of years ago on a raining day (ok it doesn't rain hear in the desert that much). Uses nothing but 2N2222's, the best transistor america ever made, a small handfull of 1N914s and assorted toriods, caps and the like. It's xtal controlled, built on a piece of copper clad about 8 inches by 8 inches. Construction is strictly ugly, using pieces of board cut into small squares and glued down. I count about 12 2N2222's, the best transistor america ever built, including 4 in parallel for final, A nice little side tone, and, a nice little 3 stage audio amplifier. TR switching? Sure, theres a nice swich to do so. Ok, it is direct conversion but big deal, I designed it, I built it and yep, it works too and I have the QSLs to prove it.

Actually this was a fun little rig to build. I just started at one end and worked to the other, gluing, soldering, experimenting. I really didn't start out to build the rig, just was a lark. In fact I really enjoyed it, just cuz. I had to call back to when I first started brewing as a kid as to how to make a cicuit work with a NPN when a PNP was called for but none were to be had. The 2N2222, the best transistor america ever built, is a very forgiving, cheap, and powerful little bugger.

So it can be done. The only problem I had was I didn't make a schematic of the little rig. Not to be lost tho, as the ugly construction really lends it's self toward figuring out exactly what you did after the fact.

Good Luck all

es

72

Mike WA6ARA

PS - Doug, can I enter this or do I start on another one? Who know, with El Nino we might just have another rainy day in the desert this year.

-----  
Date: Wed, 29 Oct 1997 23:04:00 -0500

From: "Dave Redfearn" <n4elm@ipass.net>

To: <n4bp@shadow.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [29911] Re: ICOM Rigs - QRP

Message-ID: <199710300419.XAA03302@passport.ipass.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

On my IC-706MKII the power output for L is about 3 watts and for 1 is about 4.5 watts.

Works for me.

73 - Dave,N4ELM.

-----  
Date: Wed, 29 Oct 1997 23:41:43 EST  
From: tahrens1@juno.com  
To: pharden@aoc.nrao.edu  
Cc: qrp-1@Lehigh.EDU  
Subject: [29912] Re: Norcal 2222 Design Contest  
Message-ID: <19971029.233910.4919.2.tahrens1@juno.com>

If the winner ends up being a pretty good performing rig.... howz about a PCB? Betcha there are some layout artists out there who are bored! ;-)

cu

Tim W5FN

or is that board?

-----  
Date: Wed, 29 Oct 1997 23:41:43 EST  
From: tahrens1@juno.com  
To: adams@chuck.dallas.sgi.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [29913] Re: Spots  
Message-ID: <19971029.233910.4919.1.tahrens1@juno.com>

OK Chuck - I'm outside.... but can't see anything...

;-)

Tim W5FN

On Wed, 29 Oct 1997 22:58:46 GMT adams@chuck.dallas.sgi.com (Chuck Adams) writes:

>  
>The spots are coming! The spots are coming! Watch the sun.....  
>  
>Chuck Adams K5FO CP-60 adams@sgi.com  
><http://reality.sgi.com/adams/index.html>  
>  
>

-----  
Date: Wed, 29 Oct 1997 23:32:36 -0600  
From: n5inz@juno.com (John M Andrews)  
To: qrp-l@Lehigh.EDU  
Subject: [29914] Re: The already infamous 2222 design contest  
Message-ID: <19971029.233238.3222.8.N5INZ@juno.com>

I never had an original idea in my life. Every good qrp idea I ever had was stolen from someone else.

Take a peek at "Solid State Design" and you will find a working schematic for the CA-3028. It's 3 '2222's and 2 resistors(Same for the CA 3046- no resistors).

When you build it on a dip header you have the same thing. Take another look at the module concept in "QRP Classics". It's all there.

Connect the dots. I think that solves the "no i.c.'s" rule.

72, John-N5INZ

-----  
Date: Thu, 30 Oct 1997 06:28:08 -0800  
From: Dave Fifield <fifield@pacbell.net>  
To: QRP List <qrp-l@Lehigh.EDU>  
Subject: [29915] Re: Norcal 2N2222 Contest  
Message-ID: <34589978.6A20@pacbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii



Content-Transfer-Encoding: 7bit

To PNP or not to PNP, that is the question...

\*\*\*\*\*

I was going to be awkward and insist that PNP's shouldn't be allowed even though this may have the effect of limiting quality (winning) entries to just a handful of know-it-all designers. Then I thought about it for a second time and, you know, I think that in the interest of:

- a) soliciting design entries from a wider crosssection of homebrewers,
- b) allowing a wider choice of circuit "building blocks" to be used, and
- c) ending up with a winning design that will be economic and NOT have design compromises due to limiting the designer to NPN transistors only,

I vote to allow the use of a limited number of 2N3906 PNP transistors (say 4 max?) in addition to the 22 2N2222 NPNs (actually, I'd like to be able to use MORE 2N2222's than that, but rules is rules....).

As far as making it into a kit, since Doug didn't specify that it had to be kitable for a price (like the design contest). I have no qualms about using higher cost, high quality components for the rest of the circuitry (eg. shottky diodes for homebrew double balanced mixers in place of SRA1-H etc.) so I guess although my design will perform well, it may end up being out of the ballpark as far as kitting it. I intend to use currently available parts for the design just in case.....

BTW, here is my design target: 15m CW transceiver, VFO tuned superhet RX, 0.5 to 1 watt TX out - depends on the number of 2N2222's I have left over from the rest of the rig ;-), QSK, "real" sidetone, AGC(!!!) and 200mW loudspeaker audio.

I have sketched out my design already. I don't actually NEED any PNP transistors for it, but it sure would make things neater and more ergonomic and economic. It CAN be done, but you have to be creative (and have a good technical reference library!).

Let's hear from the other testers what their target designs are.

72, Dave Fifield, AD6AY

-----

Date: Wed, 29 Oct 1997 23:43:53 -0700 (MST)

From: Paul Harden <pharden@aoc.nrao.edu>  
To: Chuck Adams <adams@chuck.dallas.sgi.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [29916] Re: StarShip NC 2N2222A  
Message-ID: <Pine.SOL.3.91.971029233803.20705K-100000@zia>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 30 Oct 1997, Chuck Adams wrote:

> Gang,  
>  
> Now this idea of a 2N2222(A) building contest is something exciting.  
> :-) I'll be entering this years competition. This outta be fun boys  
> and girls.  
> 4. Got out the Spice program and the file for the 2N2222A.  
> 5. Got the copy of Kielkowski's 'Spice Practical Device Modeling'  
> with software to play with some of the models and circuits.

Chuck,  
Any suggestions for us who DON'T live on the bridge of the Enterprize?

Seriously, your sources were some good suggestions. I particularly would recommend getting your hands on a 1960's or so transistor data book published by RCA, Sylvania, etc. They had some very good design stuff in the back for application notes. Just forget about all that Icbo and y13 parameter stuff and skip to the biasing part.

72222, Paul NA5N

-----  
Date: Thu, 30 Oct 1997 00:09:10 -0800  
From: svecbrdk@well.com (L.Svec,W.Burdick)  
To: qrp-1@Lehigh.EDU  
Cc: ki6ds@telis.org, erics@cruzio.com  
Subject: [29917] NorCal 2222 rules (again) and comments on the comments...  
Message-ID: <199710300701.XAA25310@smtp.well.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Folks,

Boy, it's nice to see so many responses to this back-to-basics challenge. Many good ideas. Presumably everyone's counting 2222's, trying to get to

sleep at night.

I wanted to do two things: first, answer some questions, then re-post my original set of 2222 design contest rules for anyone that may have missed them. You'll find them at the end.

#### 1. Why not allow PNP transistors?

My intent here was to be a purist, I admit it! :) I thought it might be fun focus attention on what can be done with nothing but NPN transistors. The goal is NOT to facilitate optimal design, which would certainly require PNPs, FETs, etc.

If you're worried about making a PNP-less and transformer-less audio output stage, consider that you can get quite a bit of power into 8 ohms with three or four 2222's in parallel, operating class A, with a beefy resistor in series with the collectors. On the other hand, if all you're driving is 32-ohm ear-buds, one 2222 operating class A will be more than adequate.

#### 2. Why not allow integrated mixers (SBL-1, etc.) ?

That violates the spirit of rule #1: "...a radio that could be built in any country, no matter how remote it may be from Silicon Valley...." I'm thinking that, on the moon, for example, you might not be able to find an SBL1. But you sure could find some silicon diodes and roll your own mixer!

#### 3. Why not allow 3-terminal regulators?

That's an IC. Sorry. You can do a very good job with either a zener diode alone OR a zener diode with an NPN transistor as a buffer/follower if you need a lot of current. If you want to get really fancy, use an additional 2222 to provide temperature compensation....'nuff said.

#### 4. How much RF power can you get out of a 2N2222?

Hint: use the metal can for the PA stages! (The plastic PN2222 is much wimpier.) You can get a watt out of a 2N2222 for a while, more than a while with a really good heat sink, at least at low frequencies (like 3.5MHz). Put them in parallel or push-pull, perhaps with individual emitter resistors, to get more power. On the other hand, no one said this had to be a 5W rig! How about a 500mW hand-held DSB rig for 15 meters?

OK, no more hints. Here are the rules again, as promised. Good luck!

Wayne

\* \* \*

The NorCal 2222 Design Contest  
Wayne Burdick, N6KR

## Introduction

The object of this contest is to build a ham-band transceiver using only one kind of active device, the venerable 2N2222 NPN transistor. NPN transistors can function at all stages of a radio--oscillators, RF or AF amplifiers, mixers, switching and timing circuits--and you get to use up to twenty-two of them!

Specifically encouraged is out-right theft of existing circuits to build the transceiver. In fact, you don't necessarily have to design a thing; if you want, just glue together existing circuits. But do it with style!

This contest will appeal to those who are all thumbs, since the finished rigs will NOT be judged by appearance or construction technique, just by what they do and how well they do it. The winner will have the honor of having his or her design named the official "NorCal 2222 Transceiver"! There will of course be tangible prizes, too, and there's always the possibility that the winning design might become a NorCal kit.

## Rules

1. The 2N2222 is the cockroach of NPN transistors: no matter what happens to us or to the planet, you'll still be able to find them in huge quantities. Your task is to use these ubiquitous parts to design a radio for a post-apocalyptic world; a radio that could be built in any country, no matter how remote it may be from Silicon Valley.
2. You may use up to twenty-two (22) 2N2222-family transistors, including the 2N2222, 2N2222A, PN2222, PN2222A, exact NTE equivalent, etc. You can use as many other electronic and mechanical components as you like (including diodes), as well as any kind of packaging. But DO NOT use ICs or other transistor types.
3. Feel free to incorporate parts of published circuits into your design. Cite all references used, and try not to "borrow" more than 25% of your

design from any single article. Also let us know which circuits you designed from scratch, or modified, and explain what you learned or observed in the integration process.

4. The transceiver may operate on any ham band(s) and any legal mode(s), but must meet FCC regulations.

5. For each design you submit, please provide the following:

- A. Working prototype of the design
- B. Complete, readable schematic on one 8.5" x 11" page
- C. One-page, typed description of the design, including operating instructions
- D. Results from your own bench tests

### Judging

Entries will be judged strictly by how creatively the designer applied the 2N2222 in his or her design. Entries will be NOT be judged by appearance, construction techniques, finish detail, etc., nor on how many 2N2222's were actually used. (For example, the judges will not be impressed by the use of a 2N2222's base-emitter junction as a simple switching diode.)

In general, performance of the radio will be inferred from the schematics and from the test results you supply. However, those rigs that are deemed safe to operate may also be tested on the air using real antennas. (If the judges have a lot of fun with your radio, it can't hurt your chances. If they fry their power supply and get dirty faces from exploding electrolytics, it *will* hurt your chances. Since you never know who might be judging--we certainly don't--try to make your radio foolproof!)

-----  
Date: Wed, 29 Oct 1997 23:28:32 +0000  
From: Leon Heller <leon@lfheller.demon.co.uk>  
To: daniel@pandora.lugs.org.sg  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [29918] Re: 455kHz ceramic filter differences  
Message-ID: <P\$M7YdAga8V0EwCn@lfheller.demon.co.uk>  
MIME-Version: 1.0

In message <34578ef1.pandora@pandora.lugs.org.sg>, "W. Daniel, 9V1ZV"  
<daniel@pandora.lugs.org> writes

>Hi,  
>  
> I have some questions concerning 455kHz IF filters. I wonder if someone  
>here can help me out.  
>  
>1. What is the difference between a CFWM455E and a CFW455E? Do they belong  
> to the same family, and thus share the same basic characteristics?  
> (except bandwidth perhaps?)

I can't really see any electrical differences between them from the  
(rather old) Murata data I've got. The CFWM455E has a smaller case. They  
are not the same family - they are on different pages.

>  
>2. I am looking for a "flat group delay filter". I'd appreciate if someone  
> enlighten me on this. I understand that some filter types introduce  
> phase distortions and flat group delay filters don't. How do I tell the  
> difference?

I don't think that group delay matters much for NBFM, it isn't specified  
for these filters, anyway. Murata do make wide-band flat group delay  
filters for AM stereo.

>  
>3. Will impedance mismatch in the IF stages result in phase distortion or  
> just plain losses?

One thing it does affect a lot is the filter response shape, especially  
for ladder filters.

>  
> I know these are rather unusual questions but I'd appreciate any  
>pointers. Thanks.  
>  
>73 de 9V1ZV Daniel

--  
Leon Heller: [leon@lfheller.demon.co.uk](mailto:leon@lfheller.demon.co.uk) <http://www.lfheller.demon.co.uk>  
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424  
See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a  
low-cost reconfigurable computing module using the XC6216 FPGA

-----

Date: 30 Oct 1997 08:41:01 +0000  
From: Dave.Ackrill@LotusXchgPG.powergen.co.uk  
To: qrp-1@Lehigh.EDU  
Subject: [29918] QRP on "non-QRP" rigs  
Message-ID: <971030084101Z\*/G=Dave/S=Ackrill/O=LotusXchgPG/PRMD=POWERGEN/  
ADMD=CWMAIL/C=GB/@MHS>

Despite what the manual may say, it is often possible to adjust QRO rigs to QRP levels. Look in the manual for which ever socket takes external ALC levels (often associated with the drive to a linear) and read what is the maximum value of negative voltage that can be applied.

Next take a battery and a variable resistor, connect the variable across the battery and connect the output to the rig. \*\*\*\*\*IMPORTANT\*\*\*\*\* This voltage is usually a NEGATIVE voltage, so you will need to connect the positive of the battery to earth and the negative to the ALC pin.

To adjust the power, vary the resistance which alters the voltage and reduces the power. Normally the greater the negative value of ALC voltage applied, the lower the power output becomes.

If the range is too small, i.e., the difference in power levels is not easy to adjust, experiment with a few different values of resistor between the battery terminals and the variable resistor and make the voltage swing appear across a greater amount of the variable resistor.

There have been several circuits for this published in SPRAT and often work with many different makes of rig, so don't be put off if it says that it is designed for a different rig, the basic idea is the same but the values of voltage and resistors needed may need to be changed.

Cheers de Dave (G0DJA)  
dave.ackrill@pgen.com

-----  
Date: 30 Oct 1997 08:37:09 +0000  
From: Dave.Ackrill@LotusXchgPG.powergen.co.uk  
To: qrp-1@Lehigh.EDU  
Subject: [29919] 10 GHz WBFM  
Message-ID: <971030083709Z\*/G=Dave/S=Ackrill/O=LotusXchgPG/PRMD=POWERGEN/  
ADMD=CWMAIL/C=GB/@MHS>

I have not seen the Rad Com article, but I have used 10 and 24GHz WBFM

gear in the past.

Both systems used a simple 10.7MHz Wideband FM I.F strip (using either a 3089 or a 3189 chip) connected to the mixer diode of a head consisting of a cavity with an in-line Gunn Diode and a Mixer Diode. Drive to the Gunn Diode was provided from a 7805 regulator, with a variable resistor in the middle pin, the one normally connected to ground when building a 5V supply, as a VFO.

In addition a BC108 audio amplifier fed audio from the microphone to the centre pin of the 7805, which then varied the voltage to the Gunn Diode and, since the Gunn Diode is voltage sensitive, this varied the transmitted frequency and hence produced Frequency Modulation.

On receive, the outgoing energy from the Gunn mixed with the incoming signal and the sum or the difference of these frequencies were detected by the Mixer Diode and fed to the I.F. In my case I tuned 10.7MHz either side of the signal to hear the incoming transmission. If the other person was using 10.7MHz I.F we could have a full duplex QSO (i.e., we could both talk and receive at the same time!)

I've known people use other I.Fs, like 28MHz and 100MHz, I have also seen people get a cheap FM radio (the ones used to listen to the FM broadcasters between about 86 and 108 MHz) with a length of wire soldered to the output pin of the Mixer Diode wrapped around the cheap FM radio. In this case they tuned to a clear spot (not always easy on top of a hill!) and then adjusted their TX frequency until the difference between incoming and outgoing signals was this frequency and they could hear the other station. Because this often meant that neither end was using exactly the same I.F, this usually resulted in a simplex QSO with the need to re-tune between overs.

Over here we can still buy ready made 10GHz heads in the form of intruder alarm modules, these can be bought at Rallies and are a die-cast unit with the word "Solfan" cast into the side. Look out for the ones with both a Gunn Diode and a Mixer Diode in them. There are also designs for making your own out of a piece of waveguide. Another advantage of the Solfan unit is that the screw holes are exactly the right position for the standard 10GHz waveguide flange, thus making connecting to a dish or horn very easy.

The feed to the dish was a simple "Penny Feed". This consisted of a straight length of waveguide connected to the head mounted through the back of the dish, through a hole, to the feed point of the dish. A slot 1.5cm (half a wavelength) was cut in each broad side of the waveguide and a disk 3cm in diameter was fitted on the end. This was called the "Penny" feed because an old UK Penny was just about the right size, and was metal so would have been ideal. When the new decimal coins came out



the 2p coin was often used instead. Some people said this was illegal as it defaced the coins of the realm and chose to make their own disks, which wasn't difficult to do anyway.

I used a similar set up on 24GHz, just substituting a Plessey made head (much smaller than the 10GHz one of course) which had a Gunn Diode on 24GHz and a smaller in line mixer diode.

Hope that this helps those who want to have a go. Oh yes, the power output? Well mine was a fairly typical set up running 5mW, but some people could run QRO at up to 200mW, but with in-line systems this meant reduced RX sensitivity, and so some had a QRO TX and a smaller power in-line unit optimised for RX. My best DX (and my set up was not the best by any means!) was 196km. The main problem was finding long enough Line Of Sight paths.

Now a days over here the main activity is now narrow band (SSB or CW) using more complicated kit, but distances are now very much longer, with QSOs into Europe and Scandinavia from quite poorly located home stations becoming common. So the activity on WBFM has dropped to a very low level. Let's hope that there will be an increase again after the Rad Com article and interest on this list.

Cheers de Dave (G0DJJA)  
dave.ackrill@pgen.com

-----  
Date: Thu, 30 Oct 1997 21:12:11 +1100  
From: "Glen Torr" <glentorr@ozemail.com.au>  
To: "<"Low Power Amateur Radio Disscussion \"" <qrp-1@Lehigh.EDU>  
Subject: [29919] 2N2222 rig  
Message-ID: <199710301007.VAA00220@server3.syd.mail.ozemail.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Gang,

Still formulating specs for my rig ( VK2222 ? ) but a couple of articles from the past may be of interest :-

1) Transmitter Fundamentals, QST Dec. 1979 Doug DeMaw and Bob Shriner ...  
Crystal controlled TX using 6 2N2222,s 4 in final, only PNP is keying switch.

2) Low Cost QRP Power Boosters, QST ??/??/?? Doug DeMaw... Power O/P stages using parallel 2N2222s I dont know which QST this is from as all pages on my photocopy are not dated, a quick ( not accurate ) search of my CDRom QST's, 1970 to 1984, did not find the reference and I suspect it is later than 1984.

Interesting quote from this article ... "Who will be the first to build a 25-W RF power amplifier from a bag of 2N2222A's"...

The contest has a connection to the great heritage of QRP.

Good Luck to all.

A great contest.

Glen VK1FB

-----  
Date: Thu, 30 Oct 1997 07:15:07 -0300  
From: Osvaldo DAngelo <lu7fdz@bibliele.ros.com.ar>  
To: qrp-l@Lehigh.EDU  
Subject: [29920] Pse information Amidon  
Message-ID: <199710301021.HAA05544@server.bibliele.ros.com.ar>  
Mime-Version: 1.0  
Content-Type: multipart/mixed; boundary="=====\_878217307==\_"

--=====\_878217307==\_  
Content-Type: text/plain; charset="us-ascii"

--=====\_878217307==\_  
Content-Type: text/plain; charset="us-ascii"

Hello friends of the list:

Would need please the address of the company AMIDON, manufacturer of toroides.

From already, grateful.

Regards for all:

osvaldo - lu7fdz

--=====\_878217307==\_  
Content-Type: text/plain; charset="us-ascii"

```

*****
#      #  #  #####  #####  #####  #####  LU7FDZ
#      #  #      #  #      #  #      #      Osvaldo DAngelo
#      #  #  -#-  #####  #  #  -#-  Telefax: 041 - 572864
#      #  #  #      #      #      #      #      lu7fdz@bibliele.ros.com.ar
#####  #####  #      #      #####  #####  BV. AVELLANEDA 436 - 2000 Rosario
*****

```

--===== \_878217307==\_--

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Date: Thu, 30 Oct 1997 06:36:35 -0500  
From: Mel Evans <MelEvansGM6JAG@compuserve.com>  
To: "qrp-1@lehigh" <qrp-1@Lehigh.EDU>  
Subject: [29921] 2N2222 Haggis re-cycling Press Release!  
Message-ID: <199710300636\_MC2-259F-74CA@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Disposition: inline

Press Release  
30th October 1997

The Haggis Re-cycling Company are pleased to announce the introduction of=

their junk-box re-cycling service.

Simply send 22 mixed devices in plain brown wrapper, and take advantage o=

f

our new, discreet, discrete re-numbering services. All devices returned

re-numbered within 28 days, again in plain brown wrapper. Special

introductory offer, the letters "2N2222" are on special for next few days=

only. =

22 devices numbered "2N2222" for only \$22.22 plus postage and sales tax f=

or

CA residents.

Seriously chaps, sounds like a jolly good idea, must find that circuit of=

George Burt's that uses BC 109's to do the lot . . . . . =

72 and 73 de Mel  
GM6JAG  
Edinburgh Scotland UK  
Home of the last HW9

-----  
Date: Thu, 30 Oct 1997 06:36:30 -0500  
From: Mel Evans <MelEvansGM6JAG@compuserve.com>  
To: "qrp-1@lehigh" <qrp-1@Lehigh.EDU>  
Subject: [29922] CW and JAG  
Message-ID: <199710300636\_MC2-259F-74C8@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Disposition: inline

Hi gang,

As the one of the few qualified to opinion on this matter, (see Callsign)=  
I  
have consulted with Nils. We are of the opinion that the message sent  
really was

The badgers have left the diller ranch, and are pursuing the hagg=  
is  
to Brigadoon.

I trust this definitive ruling is accepted by all.

72 & 73 de Mel  
GM6JAG  
Edinburgh, Scotland UK  
Home of the last HW9

-----  
Date: Thu, 30 Oct 1997 07:08:24 -0600  
From: "Junius B. Fox" <w5hir@mail.phoenix.net>  
To: qrp-1@Lehigh.EDU  
Subject: [29923] Loading Coil Form  
Message-ID: <3.0.1.32.19971030070824.006a8704@mail.phoenix.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

HI...somewhere in this world, someone has, in their goodie box,  
one or more old mobile antenna loading coils or coil forms. I need to get  
one or more of these for my all band whing ding autoload design.

If you have such forms or coils, please contact me at  
w5hir@mail.phoenix.net. Thanks,

Foxy  
w5hir@mail.phoenix.net

"success is recognizing a dead horse and burying it with the least ceremony"

-----  
Date: Thu, 30 Oct 1997 13:12:05 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: fifield@pacbell.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [29924] Re: Norcal 2N2222 Contest  
Message-ID: <199710301312.NAA04210@chuck.dallas.sgi.com>

Dave,

1. 17M
2. Varactor VFO tuned.
3. SuperHet RX
4. 0.49W output
5. QSK at 40wpm
6. Sidetone
7. No AGC
8. No loudspeaker audio, but good quiet stereo
9. And a secret ingredient!!

No PNP transistors to be found in the rig anywhere and no relays.

Let the games begin.

dit dit  
Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

-----  
Date: Thu, 30 Oct 1997 08:21:57 -0500 (EST)  
From: PDouglas12@aol.com

To: qrp-1@Lehigh.EDU

Subject: [29925] Norcal paddle notes

Message-ID: <971030081847\_-466584540@emout02.mail.aol.com>

Hi Gang,

I am working on my Norcal Paddles and had some ideas to pass on. I think it was Chuck who commented that the machining in the actual kit run was substantially more accurate than the early prototypes. This seems correct.

The kit instructions have a section about filing down the oil impregnated bearings to reduce the clearance to .002 inches, which, to say the least is very close tolerance. And there is a warning that overfiling (too close to flush with the arm into which the bearing is fitted) will ruin the bearing.

The instructions also suggest that a set of automotive feeler guages can be used to set this clearance. My other hobby is my MGB out in the garage right now hunkering down for the winter. I have several sets of automotive feelers, and they don't go down below ten thou of an inch. So, that won't work. However, I tried setting those bearings into the arms just to see, and frankly they are very very close now. On a flat table, the bearing sticks out of each arm just enough to catch my finger nail as I run it across the top surface. So, I suspect that the bearings are already close enough for government work. I would suggest that other builders should be very circumspect about filing those bearings any further, and would advise others to try the paddles and the fit before attempting any filing to shorten the bearing.

Those who are awaiting their kits will soon discover that the base of the key is about a pound and some of solid steel, cold rolled, and while it sure is heavy enough, it is not finished. It requires smoothing and painting. But for the less ambitious among us (me) the instructions invite builders to send to the machine shop Norcal used to buy a finished base.

Being naturally lazy (and maybe this will create some stir among my brethren, but I discovered that I am more lazy than cheap) I have sent in my check to San Luis Machine Co for one of their powder coated bases. For those not familiar with powder coating, it is a process of applying a very hard protective coating (harder and more resistant to abrasion than most paints).

After restoring a whole MG, I just can't bring myself to start sanding and painting another hunk of metal when I can pay to have it done! So, since I may be among the first to opt for the lazy ham's version, I will tell you all how the base looks when I get it. The letter went out yesterday (10/28/97 UTC), so we can gauge how long turnaround takes. I ordered a blue one.

As for finishing the brass parts, well, I have accumulated some stuff from my other hobbies. I tried using just a rag and some cutting compound last night and got a decent shiny surface on one of the arms, but the tool marks are still there underneath the shine. So today I started using more compound with a polishing wheel in my trusty Dremel. It appears the marks are polishing out, but I don't think I will overdo it. Probably this key will be

a daily user, so a good surface polish will do for me. Stuff you might like to try to make your parts shine up would, in my opinion, include Rubbing Compound (Red is more abrasive than white--made by several mfrs including Turtle Wax--I used the Red); you might also try No 7 Chrome Polish made by Rain Dance--probably equivalent in abrasiveness to white compound; and for tarnish removal and maintenance, try Ever Brite wadding polish--this stuff is sold in any auto store under lots of names--it is the wadding soaked in a tarnish-removing solution. Note, all of this stuff or the equivalent can be found in your local auto supply store. It can be rubbed (and rubbed and rubbed...) by hand with rag if you happen to be retired or in jail, or can be used with a buffer wheel to speed things up. Notice I didn't use any sandpaper. I hate sandpaper. And please be aware that all of this stuff is toxic if swallowed and must be kept away from little children. Oh, and if the polishing compound gets in the holes, just run the brass pieces under the tap to wash out the holes. Don't worry about water on the brass--what do you think your faucets are made of? Make absolutely certain to dry everything before you assemble it, of course. Have fun polishing.

72,  
Preston

-----  
Date: Thu, 30 Oct 1997 13:21:02 -0500  
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>  
To: qrp-1@Lehigh.EDU  
Subject: [29926] FOX: Week 4 (long)  
Message-ID: <3.0.16.19971030132004.2f0f74ba@som-uky.campus.mci.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

No Joy. JOY! JOY? Joy of QRP.

A week for QRP, to be sure. I received my copy (#14) of Ade's "Joy" and "History" books. Three... count 'em... 3 Foxen for week 4. Better look busy.

--- Oct 21 --- NQ7K

I had such good luck with the KOB the week before, I decided to give it another try. Noise is terrible - S-8. So I switch on my "secret" weapon - a W1FB QRM Squasher (more on this magnificent device in a later posting). Now the noise is a manageable S-1, and I start hunting. I find the pileup pretty quick. The hounds are a steady S-5... not a lot of QSB. Things subside a lil, indicating that someone nabbed the fox...

and there he is... S- nothing minus 10db! He is barely readable in my headphones, and I mean \*barely\*. I twiddle the knobs on the squasher, trying to squeeze just a little more S/N out of the ether - but to no avail. It continues that way for the entire 2 hour period. Mike's signal just never quite made it into my receiver strong enough. Oh well, hopefully I'll get him in January.

--- Oct 22 --- AB7TK

Things started out miserable. There was the same S-8 noise that was haunting me last night. So I switch on the squasher, adjust the phasing, and low and behold - S-0 noise! Yes! If I had been able to clean up 40m like this last night, I'm sure I would have picked up Mike. I'm bound to get Randy in Idaho tonight.

0200 rolls around, and I'm ready. And there he is calling his first cq, and he's S-5. This should be quick. I dump my call, and he comes back to somebody else. Ok, no problem. He sounds like he's listen up a few hundred cycles. So I make the necessary adjustments, and call again. He picks up a w6... ok, that was probably short skip for him. He gives him a good report, but hey... Randy is now S-1, and getting weaker! Oh no, there goes the band. I'm getting a lil nervous now. I remember how last night's signals were - I hope this evening holds out just a little longer.

Now I'm struggling. All I hear is a faint pileup. Sounds like the band has changed for others as well. So I stop sending my call. I sip on my coffee, and listen to the pileup for a while.

At 0315 Phyllis walks in, picks up the extra set of wireless headphones, puts them on, and has a seat in the recliner behind me. She pulls one side away from her ear. "Did you get him?" she asks.

"Well, he started out strong, but now he's so weak, I'm not sure if he's even there anymore. The pileup is almost gone, too".

She picks up the Fox schedule on the table. "He's on for another 45 minutes, right?"

"Well, yeah, I guess."

"You'll get him. Just keep trying".

How could I give up now? I readjust the headphones. It had been a while since

I tweaked the phasing on the squasher... funny how the phase of the noise slowly changes as it strikes the two antennas.

At 0325, signals make a recovery of sorts. I can hear Randy again, and he's getting stronger every qso. The pileup is still kind of weak. So I grasp the key and let my call go. Yes! 0328 I get a 559 report.

I go to the kitchen, and fix Phyllis a cup of her favorite hot chocolate - with extra marshmallows.

Some of the stations heard this evening were -  
AC6KW, K1MG, KU7Y, N0TFI, N7VE, K5UP, WE6N, K6MW.



--- Oct 24 --- VE7CQK

I knew Paul was probably going to be tough to catch. British Columbia is a long haul for my QRP signals. I switch the radio on. The now familiar pactor-like signal is on 7037 - pretty strong too - S-4. Enough to obliterate any pileup, let alone the Fox himself.

But he is there, and I hear him well enough to call. Pileup is strong... much stronger than Paul. It can be discouraging to hear a strong pileup. But I have to keep in mind that it may not be as strong on the other end. I notice that several stations are jumping the gun - sending their call before Paul finishes. He's sending "VE7CQK QRZ" I think. But the pileup begins when they hear the "K" in his call.

I bide my time, resisting the urge to dump my call twice. He's getting weaker... here we go again. I speed up a little. Then he answers me... he's having a lil trouble with the exchange, so we repeat a couple times. I repeat my call... then he's gone! I totally lost him in qsb. I get frantic.

Did he change freq? Then the pactor comes in with a vengeance. No, not now! The qrm stops, and I hear Paul send "QSL". Did he mean me? Did we complete the exchange?

I spend the next several days wondering if I got the elusive VE7 Fox, waiting for Paul's summary to be posted on qrp-l. When it is, I see my call... well, almost.

> 40CW 24-Oct-97 01:19 27 KA80KU 559 559 RICH 933 OH

I know that was me, but for some reason I feel like it wasn't a "good" qso. Later, Paul informs me that his logging software was to blame for filling in some things that shouldn't have been there, and assures me that we did indeed have a qso.

I feel better now... the shaking has stopped, and I'm not chain-smoking anymore.

Stations heard this evening include -  
AC6KW, K1MG, KU7Y, N0TFI, N7VE, K5UP, WE6W, K6MW, W7QQQ,  
K5ON, AB7TT, W0RW, W00Q, K0SV, K10J.

...Rich

-----  
Date: Thu, 30 Oct 1997 08:41:04 -0500 (EST)  
From: Bob Patten <n4bp@shadow.net>  
To: Dave Redfearn <n4elm@ipass.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29927] Re: ICOM Rigs - QRP  
Message-ID: <Pine.SOL.3.96.971030083918.24756C-100000@goliath>

MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 29 Oct 1997, Dave Redfearn wrote:

> On my IC-706MKII the power output for L is about 3 watts and for 1 is about  
> 4.5 watts.

>

Mine makes just under 4W for "L". That is why I built a 6db PYE pad -  
wanted to reduce it to 1W. But the scheme of feeding external voltage to  
the ALC input is much more practical...

73,

Bob Patten, N4BP

( 0 0 )

Plantation, FL

-----o00o-( )-o00-----

E-Mail: n4bp@shadow.net

Web Page: <http://www.shadow.net/~n4bp/n4bp.htm>

Brass Pounder BBS: (954) 472-7715

-----  
Date: Thu, 30 Oct 1997 08:51:52 -0500 (EST)  
From: ARDUJENSKI@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [29928] 2-WIRE YAGI??  
Message-ID: <971030085007\_-1225286838@emout09.mail.aol.com>

Has any of you used (or are using) a REVERSIBLE 2-WIRE YAGI for 40 M? I read  
with great interest about them in the W4RNL web site. It shows a theoretical  
gain of 10dB with a front/back gain of 14..

For those not familiar with the antenna it is two 66 wire antennas spaced 21  
feet apart. The switch allows you to alternate the driven and reflector  
element.

Lets see 10dB gain is about like taking that 5 watts and making it a 4-fold  
increase?? Oh what fun on FOX NITE!

Alan KB7MBI

-----

Date: Thu, 30 Oct 1997 14:53:50 +0100  
From: Paolo Sassoli <sassoli@ii1wh10.settimo.italtel.it>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29929] Oscillator using MAR/ERA  
Message-ID: <3458916E.805F29D3@ii1wh10.settimo.italtel.it>  
Mime-Version: 1.0  
Content-Type: multipart/mixed; boundary="-----31D4C147F1329522B3FEDB51"

This is a multi-part message in MIME format.

-----31D4C147F1329522B3FEDB51  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi to all,

has anyone any experience in using the monolithic amplifier  
from Mini-Circuits Lab.( MAR family or ERA family) as active device for  
oscillators?

Will it be possible to add a "reaction ring" to one of them and bring it  
to oscillate?

Any ideas?

Thanks in advance.

Paolo IK2LNH

-----31D4C147F1329522B3FEDB51  
Content-Type: text/x-vcard; charset=us-ascii; name="vcard.vcf"  
Content-Transfer-Encoding: 7bit  
Content-Description: Card for Paolo Sassoli  
Content-Disposition: attachment; filename="vcard.vcf"

begin: vcard  
fn: Paolo Sassoli  
n: Sassoli;Paolo  
org: Italtel spa  
email;internet: sassoli@ii1wh10.settimo.italtel.it  
x-mozilla-cpt: ;0  
x-mozilla-html: FALSE  
version: 2.1  
end: vcard

-----31D4C147F1329522B3FEDB51--

-----

Date: Thu, 30 Oct 1997 13:57:57 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [29930] Saturday NorTex Meeting  
Message-ID: <199710301357.NAA04550@chuck.dallas.sgi.com>

Just in case, for those in the vicinity of the Metroplex  
Dallas/Ft Worth arena.

Meeting 10am, 6200 LBJ Freeway, at Silicon Graphics Inc.  
Just east of the Preston Rd and LBJ intersection on the south  
access road. Go into the lot adjacent to the Best Western Hotel  
and you can't miss the crew standing around in the lot just  
before the meeting like vultures looking for road kill.

Topic will be paddles and keyers, so bring one or more and we  
can all tell lies^h^h^h war stories about fox kills and DX  
with our favorites.

Lunch to follow and then everyone off to their shacks for the  
big ARRL CW SS todo beginning at 2100UTC and going for 30hrs,  
of which you only get to operate 24 which should be enough.

Also, bring any schematics or hints for the 2N2222 contest in  
progress and I'll bring some stuff to copy and pass out.  
Come 15 mins early to get copies done. Please. I don't want  
to stand in front of a copy machine while meeting in progress.  
Been there done that. :-) ;-)

And for other clubs, we can do an information exchange if  
interested. Share and share alike.

Be there - be square. W5JAY will be the visiting guest of  
honor. He has with him a classic Kent paddle, very rare.  
A must see item. The only one in TX and it's only visiting  
this week. :-)

Film at 11.  
Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

-----  
Date: Thu, 30 Oct 1997 09:08:49 -0500 (EST)  
From: JCoote@aol.com

To: k6esmead@pacbell.net, qrp-1@Lehigh.EDU  
Subject: [29930] Re: NVIS  
Message-ID: <971030090429\_592819507@emout02.mail.aol.com>

In a message dated 97-10-29 11:56:49 EST, k6esmead@pacbell.net writes:

<< Dean W Manley wrote:

>

> Aloha, everyone.

> >Can anyone help me locate the fairly recent article on building and  
> using a "NVIS" antenna?

> 73 and Aloha, Dean Manley KH6B

> kh6b@juno.com

-----original message edited only for  
brevity-----

Hi Dean:

You can buy a book on NVIS antennas (NVIS Communications) for \$14.00  
plus \$2.00 S&H at:

WORLD RADIO BOOKS  
P.O. Box 189490  
Sacramento, CA. 95818  
tel: (916) 457-3655

72s, CUL, Earl, K6ESM

- >>

I was thumbing through DeMaw's antenna book in the library and came to a section on "Cloudwarmer" antennas. One of these was a basic dipole about .2 wavelengths above a counterpoise wire. The counterpoise was about 5% longer than the dipole. This design was basically a 2-el yagi aimed up. The DeMaw book also showed the same antenna idea in vee form, with the reflector (or counterpoise) also a vee, under the radiating antenna.

You can also put a wire or mesh reflector (counterpoise) under a multi- or wideband horizontal like the G5RV or center-fed zepp. The counterpoise must be the length of the flat-top or a few percent longer.

Random-wire (end-fed) antennas can have the counterpoise wire from the tuner run under the flat-top section of the wire for improved NVIS.

In an allband wire antenna, 30 or 35 feet maximum above ground will be OK for NVIS between 1.6 and 7 or 1.6 and 10 MHz. Disaster comm and military types have used wire antennas only a few feet above ground for NVIS in 1.6-10 MHz... supports have been traffic cones, road signs or parked vehicles.

A general rule is to keep the horizontal dipole, vee, end-fed, etc no more than 1/4 wavelength above ground for NVIS on the highest frequency to be used for NVIS work.

Many "typical" ham wire antennas already are NVIS antennas because they are close to ground.

73, Jay  
W6CJ

-----  
Date: Thu, 30 Oct 1997 09:13:53 EST  
From: n4so@juno.com (charles k brown)  
To: qrp-1@Lehigh.EDU  
Subject: [29931] VLF sources  
Message-ID: <19971029.211125.2839.2.n4so@juno.com>

Some one was requesting VLF info.

Lowfer Newsletter

LOWDOWN

LWCA Long Wave Club of America

45 Wildflower Rd.

Levittown, PA 19057

\*\*\*

Ken Cornell's book:

The Low and Medium Frequency Radio Scrapbook

Ken Cornell

225 Baltimore Ave

Point Pleasant, NJ 08742

\$17.50 was the cost in 1994.

\*\*\*

David Curry WD4PLI

Curry Communications

737 N Fairview St.

Burbank, CA 91505

source: QST April 1994

Build Your Own Lowfer Transceiver, QST Mag. April 1994, p. 26. Pictures and schematic. Front Cover photo shot of a completed unit.

LF Engineering Inc.

17 Jeffry Rd

East Haven, CT 06513

tel. 203-248-8851

email 76715@compuserve.com

Sells various VLF/ELF, LF, and Medium Wave devices.

source: CQ mag. Sep. 1997 page 40.

Also available is a VLF bibliography from QST magazine.  
Ask for VLF.txt.

Ken Brown, N4SO  
QTH nr Mobile, AL/ EM50tk  
qrp-1 #622  
n4so@juno.com

-----  
Date: Thu, 30 Oct 97 09:13:08 EST  
From: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.enet.dec.com>  
To: qrp-1@Lehigh.EDU  
Subject: [29932] RE: Teflon hookup wire address?  
Message-ID: <9710301413.AA01338@us2rmc.zko.dec.com>

Ken, I have obtained teflon hookup wire and small coax from Jim Skalski.  
His e-mail address is: jskalski@acsu.Buffalo.EDU. I have no financial  
interest, just a happy customer.

73

- Mark N1VQW

-----  
Date: Thu, 30 Oct 1997 09:37:55 -0500 (EST)  
From: Philip Karras 827-2956 <PXK4@CDRH.FDA.GOV>  
To: qrp-1@Lehigh.EDU  
Subject: [29933] Resistor  
Message-ID: <C1ZXCADSB49\*/R=FDADR/R=A1/U=PXK4/@MHS>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

Jim,  $R = V/I$  still holds. The manufacturer will tell you the current  
required & generally these LEDs drop about 2 volts, the resistor is  
then used to insure that the rest of the voltage dropped is across it.

Look at it this way: 20ma and a 2 volt drop indicates that the LED  
resistance is 100 ohms. If your running it on a 12 volt supply then  
you need to drop an additional 10 volts (5 times the LED drop, or 500  
ohms) the total resistance is then 600 ohms.

Using 600 ohms and 12 volts we get back 20 ma.

$I = V/R == 12/600$

So, if I correctly characterized the LED voltage drop and current requirement try 500 ohms when using a 12 volt supply.

Last, you can always do the go ol' tried-and-true method of start high and work your way down.

72 de KE3FL  
Phil K

-----  
Date: Thu, 30 Oct 1997 09:50:23 -0500 (EST)  
From: Steve Bornstein <saborn@sreenet.columbus.oh.us>  
To: Multiple recipients of list <qrp-l@Lehigh.EDU>  
Subject: [29934] CQrp Meeting  
Message-ID: <Pine.3.07.9710300923.A22905-81000000@login>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Gang,

The November meeting of CQrp will take place Saturday November 1st at 1030. We shall meet at Universal Radio with lunch later at the Ponderosa. Bring your latest project, idea, etc for show and tell.

73, Steve K8IDN

-----  
Date: Thu, 30 Oct 1997 08:55:39 -0600  
From: "Kevin Muenzler - WB5RUE" <wb5rue@stic.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [29935] Re: Resistor  
Message-ID: <01bce543\$e2f1d3c0\$d8016f81@muenzlerk.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit



I think I'm jumping in the middle of this discussion but here's the "official" Ohm's law rule that I always use when powering LEDs or incandescent or whatever kind of lamps.

$$R = (V_{in} - V_{drop})/I$$

where

$V_{in}$  is the supply voltage

$V_{drop}$  is the voltage drop or voltage requirement for the lamp

$I$  is the current required in amps.

So as an example if you want to power a "standard" LED from a 12 volt supply:

$$V_{in} = 12$$

$$V_{drop} = 1.7$$

$$I = .020 \text{ (20ma)}$$

$R = (12 - 1.7)/.020 = 515$  so you would use a 470 ohm 1/4 watt resistor

I've even powered LEDs using the 117 volt AC supply using this method

$$R = (117 - 1.7)/.020 = 5.6K \text{ 3 watt resistor with a 1N4001 in line.}$$

You need the 1N4001 because the PIV on the LED isn't very high.

NOTE \*\*\* be sure to calculate the correct wattage value for your resistor by multiplying the current ( $I$ ) by the SUPPLY voltage.

Using this method you don't have to worry about internal resistance and all. I hope this helps and wasn't a duplicate of a previous post

Kevin, WB5RUE  
wb5rue@stic.net

-----Original Message-----

From: Philip Karras 827-2956 <PXX4@CDRH.FDA.GOV>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Date: Thursday, October 30, 1997 8:42 AM

Subject: Resistor

>Jim,  $R = V/I$  still holds. The manufacturer will tell you the current  
>required & generally these LEDs drop about 2 volts, the resistor is  
>then used to insure that the rest of the voltage dropped is across it.  
>

>Look at it this way: 20ma and a 2 volt drop indicates that the LED  
>resistance is 100 ohms. If your running it on a 12 volt supply then  
>you need to drop an additional 10 volts (5 times the LED drop, or 500

>ohms) the total resistance is then 600 ohms.  
>  
>Using 600 ohms and 12 volts we get back 20 ma.  
> $I = V/R == 12/600$   
>  
>So, if I correctly characterized the LED voltage drop and current  
>requirement try 500 ohms when using a 12 volt supply.  
>  
>Last, you can always do the go ol' tried-and-true method of start high  
>and work your way down.  
>  
>72 de KE3FL  
>Phil K  
>  
>  
>  
>

-----  
Date: Thu, 30 Oct 1997 08:55:39 -0600  
From: John Bohnert <johnb@elmhurst.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [29936] Battery As Power Source  
Message-ID: <34589FEB.A15B293E@elmhurst.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have almost completed the construction of a Sierra, along with six band modules...whew, 51 toroids wound and the tips of the fingers on my left hand are going to be numb for days! I had not given the issue of powering the Sierra much thought, but as the pile of coils diminish and find their way to the circuit boards I need to consider power sources.

I have an AC power supply which will provide 13V with 600 MA continuous...adequate for shack use. However, I would like to get into the spirit of the Spartan Sprints, even as I enjoy the comfort of my shack. I am also interested in developing a power source for use on my cross country biking trips.

I am considering a 14V battery source. What are my options for a "heavier" battery for shack use and portable use when weight is not "too critical?" What are my options for a "lighter" battery when I must provide the transportation through pedaling my bike? I have been reading about battery chargers and I am a "little" nervous in the

selection of a 14V battery source since modifications of most chargers would be necessary. I do not want to find myself in a situation similar to connectors...RCA, BNC, UHF, etc. trying to match charger with battery characteristics. Finally, is there a source of information for the neophyte in batteries...web, homage, written publication, etc. that I could study? Now I have been hearing about solar cells.....HI

72

John, N9KW QRP-L #1257

-----  
Date: Thu, 30 Oct 1997 10:15:42 -0500  
From: "Kevin F. Glynn" <kfglynn@prodigy.net>  
To: <fmathews@norfolk.infi.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [29937] Re: Pixie2 Revision File  
Message-ID: <199710301515.KAA58678@pimout1-int.prodigy.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Frank and Mark,

Thanks to you both for the good job. I'm about to embark on a very simple kitting deal, using the current model Pixie II from HSC and parts from Tech America with my local "QRO" club, Kings Country Repeater Assoc, Brooklyn and some of the guys from NJ-QRP and maybe LIQRP to boot.

My friend Bruce KA2VJD had a board just waiting to be etched, and if you guys could tell me the location of the GIF file I'd certainly appreciate it.

72 Kevin N2TO  
Brooklyn, NYC  
kfglynn@prodigy.net

-----  
Date: Thu, 30 Oct 1997 08:26:49 -0700  
From: ji3m@maxwell.com (James R. Duffey)  
To: ki6ds@dpol.k12.ca.us  
Cc: qrp-l@Lehigh.EDU  
Subject: [29938] 2N2222 Transceiver feasibility

Message-ID: <v02130500b07e52d3e570@[192.31.66.158]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Doug asked -

"Is it possible to design a good usable transceiver without using PNP transistors, using just 2N2222's?"

>From my preliminary investigations the answer is a definite yes. Browsing my library of old and new Handbooks, QRP Books and other resources I have seen circuits for all parts of a transceiver using NPN transistors. Many of the examples cited use 2N2222s. Based on this, it appears to me that it is very feasible to build a complete transceiver using no other active device than the 2N2222. Keying can be implemented with an NPN transistor and the Handbook shows how to do this. In my investigations I have seen a nice schematic for an 80 M CW transmitter, VFO controlled, using nothing but 2N2222s except for the final. In fact restricting the use of a 2N2222 to final will keep the power down to less than a watt or so without some innovative thinking.

There are easier ways to do things in some circuits, but this should give the amateur designer a good feeling for why FETs are so attractive.

Suggested sources for circuits; ARRL Handbooks from the 70s and early 80s, DeMaw's QRP series, the old "Understanding Amateur Radio" books, and finally I will share my personal secret on how to design great Ham radio gear with innovative circuits with you Doug (I think you already know this) - Steal circuits from Hawker's (G3VA) "Amateur Radio Techniques", or his monthly "Technical Topics" column in RadComm. You won't tell anybody else about this will you Doug? I thought not. It will be our secret.

The only problem with the rules I have is that the passive double balanced mixers are forbidden. I would have liked to see the rules state that a 2N2222 is the only active device that could be used, and the passive mixers would qualify. None the less, it appears that a high performance transceiver still can be built from solely from 2N2222s.

Perhaps Paul could post the difference between the flavors of 2N2222s? There is the 2N2222, the 2N2222A, the PN2222, are there any others?

By the way this whole exercise reminds me of the Mosley receiver marketed in the early 60s. Model CA-1, I think. It used nothing but 12AU7s and 12AX7s, the tube versions of the 2N2222.

Hope to have something for you to look at in Dayton. - Duffey KK6MC/5

James R. Duffey (505) 764-3143

Principal Scientist (505) 843-7995 (FAX)  
Maxwell Technologies Inc/Albuquerque Division  
Suite 300  
2501 Yale Blvd SE  
Albuquerque, NM 87106

-----  
Date: Thu, 30 Oct 1997 08:05:49 -0800  
From: Brian Kassel <bkassel@dancris.com>  
To: ki6ds@dpol.k12.ca.us  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [29938] Re: 2222 Design contest questions  
Message-ID: <3458B05D.311C@dancris.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hendricks, Doug wrote:

>  
> There has been an enthusiastic response so far to the 2222 NorCal contest.  
> One question was about the use of crystals. The answer is yes you may.  
>  
> Others have asked about using PNP transistors. I am not an engineer. Is  
> it possible to design a good usable transceiver without using PNP  
> transistors, using just 2N2222's? Let me know about this one. We have a  
> forum here, lets use it. Post your opinions and reasons why you think we  
> should or should not use PNP transistors in the 2222 contest. Please, no  
> flame throwing, civilized debate only. 72, Doug, KI6DS

Doug et all:

Yes, one can come up with NPN circuits that will mimic  
PNP circuits. The big disadvantage IMHO, is that the  
NPN circuit will be fairly more complex, larger current draw,  
more stuff to fail etc.

Here's still another suggestion:

How about allowing PNP type transistors, but the \*MUST\* be  
2N3906's. No ther types allowed then, other than 2N2222  
and 2N3906. Maybe keep the count of ALL transistors  
down to 22. 2N3906's are very cheap as well.

I think that one of the main objectives of the contest is for

the non-engineering types to learn as much as possible by the experience. By specifying only discrete components, the builder has no choice but to go through the various steps of design for each section of the radio. If IC's were to be used, the builder would not have to have any inkling of what's inside the chip. They would just hookup the terminals, and be done with it.

I wonder what the gang may think of this idea?

-----  
Date: Thu, 30 Oct 1997 15:52:46 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [29939] FOX SCHEDULE GENERAL+  
Message-ID: <199710301552.PAA06405@chuck.dallas.sgi.com>

1997-1998 FOXHUNT SCHEDULE  
November 1, 1997. Version 1.4

WEEK	CALL	DATE	TIME (UTC)	CALL	DATE	TIME (UTC)
>1	NM K50I	Oct 1	0200-0400	WI AE9K	Oct 3	0000-0200
>2	OH N8VAR	Oct 8	0000-0200	PA NR3Z	Oct 9	0200-0400
>3	AZ W7QQQ	Oct 15	0200-0400	TX W5FN	Oct 17	0200-0400
>4	AZ NQ7K	Oct 21	0200-0400	ID AB7TK	Oct 22	0200-0400
>	VE7CQK	Oct 24	0030-0230	**		
>5	CO N0TFI	Oct 28	0000-0200	MN N0UR	Oct 29	0200-0400
6	AZ W7QQQ	Nov 5	0200-0400	CA K1MG	Nov 7	0200-0400
7	MI K8CV	Nov 11	0200-0400	AZ KI7MN	Nov 12	0000-0200
8	SC W2UX	Nov 18	0100-0300	OH N8VAR	Nov 19	0100-0300
9	MN K0EVZ	Nov 25	0000-0200	KY KA8OKH	Nov 27	0100-0300
10	MN N0UR	Dec 3	0200-0400	AL KS4L	Dec 5	0200-0400
	AK AL7FS	Dec 5	0200-0400	**		
11	MI K8CV	Dec 9	0200-0400	IN N9DD	Dec 11	0100-0300
	AK AL7FS	Dec 12	0200-0400	**		
12	MD W3CV	Dec 18	0200-0400	NM K50I	Dec 19	0300-0500
13	KY KA8OKH	Dec 23	0100-0300	CO N0TFI	Dec 24	0000-0200
14	CA W03B	Dec 30	0300-0500	MD W3CV	Jan 2	0200-0400

15	NJ	N2TNN	Jan 7	0200-0400	AL	KS4L	Jan 9	0200-0400
16	AZ	KI7MN	Jan 14	0100-0300	ID	AB7TK	Jan 16	0200-0400
17	SC	W2UX	Jan 20	0100-0300	NJ	N2TNN	Jan 21	0100-0300
18	NC	AE4IC	Jan 28	0300-0500	WI	AE9K	Jan 30	0100-0300
19	IN	N9DD	Feb 5	0100-0300	NM	KK6MC	Feb 6	0030-0230
20	PA	NR3Z	Feb 12	0200-0400	CA	K1MG	Feb 13	0200-0400
21	TX	W5FN	Feb 17	0200-0400	CA	N6WG	Feb 18	0200-0400
		VE7CQK	Feb 20	0100-0300	**			
22	MN	K0EVZ	Feb 24	0000-0200	NC	AE4IC	Feb 27	0300-0500
23	CA	N6WG	Mar 3	0200-0400	CT	AA1MY	Mar 4	0300-0500
24	CT	AA1MY	Mar 10	0300-0500	CA	W03B	Mar 13	0400-0600
25	NM	KK6MC	Mar 18	0030-0230	AZ	NQ7K	Mar 20	0200-0400

Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

-----  
 Date: Thu, 30 Oct 1997 11:12:16  
 From: Steven Weber <kd1jv@moose.ncia.net>  
 To: qrp-l@Lehigh.EDU  
 Subject: [29940] 2222 thingie  
 Message-ID: <3.0.1.16.19971030111216.2eff455c@mailhost.ncia.net>  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset="us-ascii"

Well, It's looking like the audio amp is going to be the sticker in this project. I don't like using headphones, cuz they can lead to hearing problems.

BTW, I've been meaning to talk about that ever since I read an article by Joe Carr, K4IPV in Popular Electronics, of all places. Joe says he now has a constant ringing in one of his ears. This was apparently caused by years of using headphones and the inevitable "sonic blast" if you have the gain turned up high and run across a loud station or if your trying to dig out a weak one and someone decides to tune up on that frequency.

Anyway, the jist of it is this, if you use headphones, leave them loose on you ears. That way they can't build up damaging sound presure. Or use "shooters" ear plugs. These have a sliding plug that closes them if the sound presure gets too high.

I tried out a few things for a NPN only spkr amp and it looks like will have to use transformers to get any reasonable sound levels. Oh well...

72,  
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

-----  
Date: Thu, 30 Oct 1997 08:45:49 -0700  
From: torell@sicom.com (Kent Torell)  
To: qrp-1@Lehigh.EDU  
Subject: [29941] 2222: design  
Message-ID: <v02130502b07e59060245@[192.91.202.41]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

My plan (which I may not get to actually build due to schedule pressure):

10 meter cw novice superhet  
- 1 watt out using push/pull final  
- varicap VCXO design similar to 38 special: 22.118 vcxo with 6.000 IF  
- preamp  
- 'earbud' audio

This should be a nice little backpacking rig that will be quite useful next year with all the sunspot activity. Since it covers the novice qrp freq, it can be a nice draw for hf cw activity.

Bells and whistles added as we go: fsk i/o, swr indicator, etc.

Kent Torell    torell@sicom.com    602-607-4852  
SICOM    7585 E. Redfield, #202    Scottsdale, AZ    85260  
AB7OA    scQRPion 6,qrp-1 57,ARCI 9075    DM33xn    33.55 N 112.078 W

-----  
Date: Thu, 30 Oct 1997 08:12:02 -0700  
From: "Michael Fletcher" <k17ixi@mailcity.com>  
To: qrp-1@Lehigh.EDU  
Subject: [29942] Portland/Vancouver QRP meeting  
Message-ID: <GNPIHOJHOFMEDAAA@mailcity.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit



QST:

QRPers in the Portland, OR/Vancouver, WA area are invited Saturday, 9 a.m. for QRP coffee (I understand the high-power version is also available) and an eyeball at the Carrows Restaurant on 99W, near the Ham Radio Outlet in Tigard.

No agenda, just like to meet folks interested in this part of the hobby. If you have a QRP related item that you can bring for a "show and tell" then please do so.

We have five hams that have expressed interest in the meeting so there may be enough interest for a monthly coffee to break up the winter season.

This QST will also be the 147.32 net tonight.

Look for the table(s) with some interesting characters, a motorcycle helmet, and  
perhap a homebrew rig.

72,

Mike KL7IXI

Vancouver, WA

Get your free and private web-based e-mail from our new partner at <http://www.mailexcite.com>

-----  
Date: Thu, 30 Oct 1997 08:12:32 -0700  
From: "Michael Fletcher" <kl7ixi@mailcity.com>  
To: qrp-l@Lehigh.EDU  
Subject: [29943] Portland/Vancouver QRP meeting  
Message-ID: <CIAFMBPJFGMEDAAA@mailcity.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

QST:

QRPers in the Portland, OR/Vancouver, WA area are invited Saturday, 9 a.m. for QRP coffee (I understand the high-power version is also available) and an eyeball at the Carrows Restaurant on 99W, near the Ham Radio Outlet in Tigard.

No agenda, just like to meet folks interested in this part of the hobby. If you have a QRP related item that you can bring for a "show and tell" then please do so.

We have five hams that have expressed interest in the meeting so there may be enough interest for a monthly coffee to break up the winter season.

This QST will also be the 147.32 net tonight.

Look for the table(s) with some interesting characters, a motorcycle helmet, and perhaps a homebrew rig or two.

72,  
Mike KL7IXI  
Vancouver, WA

Get your free and private web-based e-mail from our new partner at <http://www.mailexcite.com>

-----  
Date: Thu, 30 Oct 1997 10:16:50 -0800  
From: David Bixler W0CH <qrp@netins.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [29944] Re: 2-WIRE YAGI??  
Message-ID: <3458CF12.B5C5B3E6@netins.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

ARDUJENSKI@aol.com wrote:

> Has any of you used (or are using) a REVERSIBLE 2-WIRE YAGI for 40 M? I read  
> with great interest about them in the W4RNL web site. It shows a theoretical  
> gain of 10dB with a front/back gain of 14..

Hello Alan:

Many years ago, I sucessfully used a real simple reversible 2-wire Yagi for 40 meters. Basically, it was a dipole driven element with a combination reflector/director element about 25 feet away. It was suspended from trees for the supports with an antenna height of around 30 feet or so. I installed pulleys and ropes so that the reflector/director element could be lowered to the ground easily.

The reflector/director was constucted with two wire segments. The major segment was about 95% of the length of the driven element (the dipole). Then I installed an insulator, then added another segment of wire equal to about 10% of the dipole's length.

I used an alligator clip to jumper across the insulator to either connect or

disconnect the  
two wire segments. With the two segments disconnected, the element was a  
director.

With the alligator clip jumper connected, the element was a reflector.

With the beam functioning as a driven element and director, it fired southeast  
towards  
the Carribean and Africa. With the driven element and reflector, it fired  
northwest  
towards Japan. Usually, I would set it up in the evening for the southeast  
direction,  
then before going to bed, went out to switch the elements. In the morning, it  
was  
then all set for the JA's.

This antenna was real low-tech, but worked like a champ and was responsible  
for lots of DX QSO's on the low end of 40.

David Bixler            W0CH            QRP: Minimum power, maximum fun!  
Seneca, MO            The Mulefox

-----  
Date: Thu, 30 Oct 1997 09:21:54 -0700  
From: gsurrency@juno.com (Gary L L Surrency)  
To: qrp-1@Lehigh.EDU  
Subject: [29945] 2N2222 &c. (LONG)  
Message-ID: <19971030.092155.3446.0.gsurrency@juno.com>

Motorola has the MPS2222A device that is an "improved" version of the  
ubiquitous generic 2N2222A. You can check it out on their web page. I  
have used them in receiver circuits, such as RF and IF amps, and have  
found them to be "hotter" (more typical gain) and very low noise.

I also used this device in some transceiver driver circuits, prior to the  
PA (another ubiquitous device, the MRF476 - now obsolete) with great  
results.

These can be found at your local Radio Shack (pn. 276-2009), although at  
\$0.59 each you might not want to purchase 22 of them there! ;-) Perhaps  
they can be found elsewhere in greater quantities at reduce prices. But  
if you only wanted a couple for the critical stages of the design, R/S  
has 'em.

As for the PNP discussion, if permission is granted to use them. I would

vote for the 2N2907A. In either the plastic or metal package, I have found them to be superior to the 2N3906 when used for things like keying the driver and/or final PA stages. They just seem to have cleaner turn-on / turn-off characteristics and a lower  $V_{sat0N}$  collector-to-emitter drop. Better QSK, driver supply voltage, and cleaner keying is the result.

The same device type from different manufacturers can exhibit better or worse characteristics. So if you can get some 2N2222A's from several companies, I highly recommend it. You will be amazed how substituting some different brands can affect certain circuits. I have seen this over and over before, recently with the pre-driver stages in my HW-9. Only one out of maybe 50 devices permitted clean, 5w operation on 10m. Moral: use some type of socket if you find you have an unstable or marginal stage. If you can't get Molex IC pins, cut apart an IC socket and use the individual pins. Later, when you find the "best" part, you can solder it in permanently.

Think of this as "blueprinting" your project. It just takes time, and is not practical to do in mass-produced products. The engineers have to design the circuits to have the best compromise when given the normal variations of component tolerances.

I guess what you can conclude from this: There is a lot of variations from device to device and between manufacturers. Semiconductor processing is still not an absolute science! :-)

IMHO.

Now, if I can just keep my 4 yr old from dumping out all my parts trays on the floor, things would be \*much\* smoother around here.....

72,

AB7MY

Gary Surrency

Chandler, AZ (Near Phoenix), QRP-L #571, AZ ScQRPions, ARRL VE

-----  
Date: Thu, 30 Oct 1997 11:29:28 -0500  
From: Patrick Franzis <franzis@esun19.gdc.com>  
To: QRP Digest <qrp-l@Lehigh.EDU>  
Subject: [29946] 38 Special cases  
Message-ID: <Pine.SOL.3.96.971030112420.6856M-100000@esun479>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

38 specials, remember them?

Has anyone ordered the case from Custom Enclosures? It looks pretty nice and seems to include the off-board parts. I'm looking for a small case for mine. I originally put it in a Radio Shack case but it's just too large.

Thanks, Pat N10CJ

-----  
Date: Thu, 30 Oct 1997 09:01:52 -0800  
From: Brian Kassel <bkassel@dancris.com>  
To: QRP-L <QRP-L@Lehigh.EDU>  
Subject: [29946] 2222: Audio Amplifier Parts Hint  
Message-ID: <3458BD80.7CD6@dancris.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang:

I see that some folks are a bit hesitant about using the 2N2222's in an effective audio amplifier circuit, especially when it comes to including an audio transformer.

Check out Dan's Samll Parts for both metal 2N2222's, and cheap audio transformers.

No, I have no monetary or other special interest in Dan's enterprise. I am a very happy customer however, and have done business with him many times.

His WWW page:

<http://www.fix.net/dans.html>

-----  
Date: Thu, 30 Oct 1997 11:36:44 -0500  
From: Rick Sealey <rsealey@InfoAve.Net>  
To: dcscott@us.ibm.com

Cc: qrp-1@Lehigh.EDU  
Subject: [29947] Flashlight CW - JAG  
Message-ID: <1.5.4.32.19971030163644.00c3d958@mail.infoave.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"

Dale Scott - on 29 October you wrote:

>-----SNIP-----<  
>radios) using a flashlight. Interesting part was that the message supposedly  
>said something to the effect "your wife and daughter are alright" all in the  
>space of about 10-15 seconds at 6-7wpm. Wish I knew how to do that!!

Hey Dale, it's easy - Q signals!  
(Although the one for "wife and daughter" eludes me right now.)

Rick - W4SEA

-----  
Date: Thu, 30 Oct 1997 10:08:20 -0600  
From: "j.w. thornton" <dub@oklahoma.net>  
To: qrp-1@Lehigh.EDU  
Subject: [29948] Re: Norcal paddle notes  
Message-ID: <3.0.3.32.19971030100820.00c7f828@oklahoma.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hey Gang: re:Prestons notes on assy of Norcal Paddle.

If .001" feeler gauges are deemed to be a necessary item, go to a machine shop supply house, rather than automotive. A set is available ranging from "thick", to .001".

Preston states that the base is "cold rolled" steel. It has been stated in previous postings that it is "hot rolled". Which is it???  
Cold rolled will surely require a lot less elbow grease to get it ready for paint for a few pennies more money per 1.5# chunk. Lets hope Preston is correct, but whatever, SEND IT ON DOWN!!!!. HI. "72"

Dub WA5YFY  
J. W. (Dub) Thornton  
QRP-1 # 159  
ARCI #6982

NW QRP # 427  
Minco, Okla. 73059

-----  
Date: Thu, 30 Oct 1997 17:14:16 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [29949] NOVICE FOX SCHEDULE  
Message-ID: <199710301714.RAA08730@chuck.dallas.sgi.com>

Gang,

OH, and where there is a 13 wpm code speed, that is the default until I hear back from the person.

This is the group that you want to help a lot. Be patient and be understanding. Remember your first QSO and remember your first contest (if any) and what it was like to have the anxiety level pretty high. After a few times they will get better. This guys and girls are gonna be the ones that a few years from now will put you in the dust big time. :-)

#### NOVICE/TECH+ LIST

BuckPD@corning.com	Preston	N0GLM	NY	5wpm
dhlauten@juno.com	David Lauten	KF4HAW	SC	5wpm
ARDUJENSKI@aol.com	Alan Dujenski	KB7MBI	WA	13wpm
n2mnn@spacegate.com	John Pituch	KC2CFZ	NJ	10wpm
macstein@cftnet.com	Mac Stein	KF4KSM	FL	8wpm
johns516@maroon.tc.umn.edu	Tim Johnson	KB0VRV	MN	8wpm
mikemo@ibm.net	Mike Maiorana	KF4TRD	FL	7wpm
ka0gkc@spacestar.net	Claton Cadmus	KA0GKC	MN	5wpm
arvidson@swbell.net	Mark Arvidson	KB0SPQ	KS	13wpm
dmatt@frontiernet.net	Dave	KB2YWT	NY	8wpm
KE4IOF@HiWAAY.net	Mark Andrews	KE4IOF	AL	8wpm
n1ozf@juno.com	Mary Whittemore	N1OZF	NH	7wpm
dcscott@us.ibm.com	Dale Scott			

Schedules as I have them: I'll pretty them up later,  
On nights where there are two stations, try to get a minimum or 3 or 4 KHz away from each pileup. :-)

>KF4HAW OCT 14 0100-0300 UTC  
>KF4TRD OCT 15 0200-0400 UTC  
>KB7MBI OCT 20 0200-0400 UTC  
>KC2CFZ OCT 23 0000-0200 UTC  
>KB7MBI OCT 27 0200-0400 UTC  
>KF4HAW OCT 28 0100-0300 UTC  
>KF4TRD OCT 29 0200-0400 UTC

KC2CFZ OCT 31 0100-0300 UTC

KB7MBI NOV 03 0200-0400 UTC  
KF4HAW NOV 04 0100-0300 UTC  
KC2CFZ NOV 8 0200-0400 UTC

N0GLM Nov 8 0000-0200 UTC  
KB7MBI NOV 10 0200-0400 UTC  
N0GLM Nov 12 0100-0300 UTC  
KF4TRD NOV 12 0200-0400 UTC  
N0GLM Nov 15 0000-0200 UTC

KB0VRV NOV 17 0100-0300 UTC  
KB7MBI NOV 17 0200-0400 UTC  
KF4HAW NOV 18 0100-0300 UTC  
N0GLM Nov 20 0000-0200 UTC  
KC2CFZ NOV 22 0200-0400 UTC

KB7MBI NOV 24 0200-0400 UTC  
KF4TRD NOV 26 0200-0400 UTC  
N0GLM Nov 27 0200-0400 UTC  
KB0VRV NOV 28 0100-0300 UTC  
N0GLM Nov 29 0000-0200 UTC

KB0VRV DEC 1 0100-0300 UTC  
KB7MBI DEC 1 0200-0400 UTC  
N0GLM Dec 4 0000-0200 UTC  
KC2CFZ DEC 6 0200-0400 UTC  
KB7MBI DEC 7 0200-0400 UTC  
KF4HAW DEC 9 0100-0300 UTC  
KF4TRD DEC 10 0300-0500 UTC  
N0GLM Dec 12 0000-0200 UTC  
KB7MBI DEC 14 0200-0400 UTC  
KF4HAW DEC 16 0100-0300 UTC  
N0GLM Dec 18 0000-0200 UTC  
KC2CFZ DEC 20 0200-0400 UTC  
KB7MBI DEC 21 0200-0400 UTC  
KF4TRD DEC 23 0300-0500 UTC de NY  
KB7MBI DEC 28 0200-0400 UTC



Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

-----  
Date: Thu, 30 Oct 1997 09:03:17 -0800  
From: David Shalita <af389@lafn.org>  
To: qrp-l@Lehigh.EDU  
Cc: Ham-Homebrew@ucsd.edu  
Subject: [29950] 2N3055 Current Share Resistors  
Message-ID: <3458BDD5.4267@lafn.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,

I have a sick 13.8 v regulated No\_Name 8 amp power supply that runs every thing in my QRP shop. PS ckt is roughly a 723 regulator IC, TIP41A predriver into two 2N3055 pass transistors. TIP41A is powered from a DC voltage more positive than collector voltage for 3055 pass transistors.

I just discovered both 2N3055 transistors failed and both had open base emitter junctions. I opened one 3055 package and can clearly see the base lead wire from base header pin to die is burned open mid span. PS has been in service for 8 years very lightly load. Why this failure?

I drew a schematic and discovered both 3055 bases are fed with 6.2 ohm individual base resistors. Both 3055 collectors are tied in parallel to raw 22 vdc in. Both emitters are tied in parallel without any current sharing resistors.

I repaired by replacing both 3055's and then tested by lightly loading PS to 0.3 AMPS for 30 minutes. I then touched each 3055 heatsink. One 3055 was HOT as HECK. Other 3055 was stone cold. Not sharing current well I guess.

I want to improve this PS reliability. Can I add resistors in series with each 3055 emitter to help current sharing? If so, what is the method to determine correct resistor value? Should be able to measure voltage drop across each emitter sharing resistor to confirm total current and how well sharing is occurring?

Thanks for any suggestions.  
73, W6MIK

--

-----  
Dave Shalita,  
af389@lafn.org  
Van Nuys, CA

-----  
Date: Thu, 30 Oct 1997 10:29:50 +0000  
From: Roger Hightower <n7kt@dancris.com>  
To: qrp-l@Lehigh.EDU  
Subject: [29951] Flashlight Morse Story  
Message-ID: <3458619E.7A7AFD33@dancris.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

'Way back in 1956, when I was assigned as a Quartermaster aboard the USS Queenfish (SS393), I used to pass the long mid-watch hours while standing deck watch rag-chewing with other watches on other ships. Using a standard Navy flashlight with a red lens, the deal was to aim at ships randomly while flashing "aaa", which we used instead of "CQ".

When someone answered with a long dash, the chat was on. Made quite a few friends that way, but soon learned to tape a dime or penny to my thumb to use as a pad, because constant pressing on the light button hurt after a while. At first, it took 2-3 days for the numbness to go away, :-)

Finally got assigned to a post-WW2 boat with a key-actuated masthead light....what fun that was! No more numb-thumb, and faster speeds. 10-12 wpm with a flashlight, and limited only by the rise-fall of the bulb filament with the masthead light.

We even had an Aldis lamp, but no one used it, because it took both hands to operate.

--

72/73, de Roger, N7KT  
AK-QRP 167, ARCI 8946, CQC 176, GQRP 9081, NE-QRP 383, NORCAL 1099,  
QRP-L 62

-----  
Date: Thu, 30 Oct 1997 10:34:08 +0000  
From: Roger Hightower <n7kt@dancris.com>  
To: dub@oklahoma.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29951] Re: Norcal paddle notes  
Message-ID: <345862A0.5CA2409F@dancris.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I believe the base is "hot rolled". Mine was not flat, and required quite a bit of work to true it up.

If you have a belt sander, use a very coarse belt to start. Clamp the sander upside-down and place the base on it until you have a good, flat surface.

Wish I'd had one instead of having to use a file.

--  
72/73, de Roger, N7KT  
AK-QRP 167, ARCI 8946, CQC 176, GQRP 9081, NE-QRP 383, NORCAL 1099,  
QRP-L 62

-----  
Date: Thu, 30 Oct 1997 12:36:54 -0500 (EST)  
From: Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>  
To: adams@chuck.dallas.sgi.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [29951] Re: NOVICE FOX SCHEDULE  
Message-ID: <970ct30.123701-0500\_est.10421-16694+4@hooch.cc.Lehigh.EDU>  
Content-Type: text

> n2mnn@spacegate.com                      John Pituch                      KC2CFZ                      NJ                      10wpm

Chuck,

John is now W2MBY. Congratulations John! I've altered the schedule to reflect that. Instead of reposting to the list, you can fetch the

revised schedule by sending the following command, in the body of an e-mail, to listserv@Lehigh.EDU:

```
GET QRP-L/FOXHUNT NT_SCHEDULE
```

or via anon FTP:

```
ftp://ftp.lehigh.edu/pub/listserv/qrp-l/foxhunt/nt_schedule
```

73

Jim N3VXI

-----  
Date: Thu, 30 Oct 1997 09:48:37 -0800 (PST)  
From: doug hauff <slmachco@fix.net>  
To: qrp-l@Lehigh.EDU  
Subject: [29952] 38S Enclosures: Where Are They??!!??  
Message-ID: <199710301748.JAA01639@fletch.fix.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Well you might ask. To make a long, expensive, grief-filled story short, my machining center suffered a brutal crash and has been down for four(4!!) weeks, new mother board(\$4,000!!) should be here friday, VMC "should" be back on line monday...38S boxes are scheduled to be on VMC by next friday, I am going to try to make the tuesday (Nov 3) plater's truck, to have anodized parts returned by thursday, final setup run beginning thursday. I hope to be shipping by Nov 10, monday.

I apologize again for the lengthy delay, we are working overtime until your boxes are completed! Thank you for your support and patience!!

72 Doug KE6RIE

PS Parts list/sketches will be mailed ASAP!

-----  
Date: Thu, 30 Oct 1997 13:02:03 -0500  
From: "Michael, Dana A" <damichael@amp.com>  
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>  
Subject: [29952] JAG CW  
Message-ID: <199710301802.NAA15242@nss4.cc.Lehigh.EDU>  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I would send "XYL YL OK". That should get the info across.

73 es GL,  
Mike W3TS

-----  
Date: Thu, 30 Oct 1997 08:16:10 -0700  
From: Brad Mugleston <bmug@gw1.com>  
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>  
Subject: [29953] Antenna Help  
Message-ID: <01BCE513.4A311040@pps-pc10.gw1.com>  
Content-Type: text

I need some help. I have more than one radio and more than a few antennas.  
I have two shacks, one in the basement and one in my upstairs bedroom -  
Yes I know there are better things to do in the bedroom than play radio but  
sometimes I just can't sleep and so I play.

Anyway I would like to get to all my antennas from either spot. I  
shouldn't have the problem with my son and me trying to get on the same  
radio so all I need is some sort of switch or will a "T" adapter work. If  
a normal "T" adapter won't work is there an electrical switch that could be  
put on each antenna?

Thanks,

de KB0ROL, Brad

-----  
Date: Thu, 30 Oct 1997 13:04:04 -0500  
From: "Michael, Dana A" <damichael@amp.com>  
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>  
Subject: [29954] 2 EL WIRE BEAM  
Message-ID: <199710301804.NAA44954@nss4.cc.Lehigh.EDU>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I have used a 2 element wire beam that was reversable. I made a director and then extended it to a reflector with a "pull chain switch" by extending and running the pull cord into the shack window. When the switch is closed the director plus the extra "tail of wire" is hooked together and makes the total length equal to a reflector. The switch needs to be waterproofed so how for long term use.

73 es GL  
Mike W3TS

-----  
Date: Thu, 30 Oct 1997 18:16:31 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [29955] FOX SCORES 9/1/97  
Message-ID: <199710301816.SAA09466@chuck.dallas.sgi.com>

1997-1998 FOXHUNT SUMMARY SHEET  
November 1, 1997

Total Number of Q's = 571

FOX SCORES

CALL	NAME	STATE	# of Q's
W5FN	Tim	TX	81
K5OI	Tim	NM	69
AE9K	Brian	WI	65
W7QQQ	Jack	AZ	65
NQ7K	Mike	AZ	65
AB7TK	Randy	ID	64
VE7CQK	Paul	Canada	56
NR3Z	Marty	PA	47
N0TFI			35
N8VAR	Ron	OH	25

+-----+  
+  
+ HUNTERS SCORES +

+	+
+-----+	
	+
K0EVZ(10) W0CH(9) KB0PTE(6) KB0ROL(6) W0CLR(3) N0HJ(6) K0SU N0TFI(6) KB0ZDF(2) N0UR K0CD KB0PI WB0T(4) K0GJX AA0ZZ(2) W00Q(4) W0RW KM0II	+
K1MG(9) W1GM AA1MY(3) N10CJ(2) N1QQV(3) K10J(7) KA1AXY WA1QVM KC1FB W1LP/MM(4) AK1P	+
W2UX(4) N2BRT AA2PF(4) W2PFS N2TNN(2) N2TO K2VNM(2) N2VPK(2) K2SJB WZ2T K2VC0(8) WJ2V AA2VK N2SMH	+
KJ3V(5) N3KFL N3XRV KA3WMJ(2) KA3EAJ(3) W03B(4) WD3P WV3J	+
KU4AF(5) WB4EXW(5) K4CGY(2) WA4CMI(2) N4DD AE4IC(3) KK4KF(2) KS4L N4ROA(4) N4JS N4UY KC4MHM K4GT(2) KS4L K4WZ(3) N4DD N4S0(3) WS4S(2) WD4MSM(2)	+
KK5X0(4) N5AL0(2) KI5G K50N(4) K5ZTY(4) KK6MC/5(7) N5JI(7) W5FN(7) W5HNS(4) AB5UA(6) W5XE K5F0(3) KQ5U(6) AA5C0 K5JHP(5) N5LU(4) AA5C0 K5W0(4) W5JH K5TZY K5UP(7) W5SP W5ZH KC5AI W5MN(3) NA5K W5JAY(2) W5SNS W5TFB(5) W5VBO KC5AIK(2) K5AO W5SB(3) KA5T(5) K5JUC KK5KU KJ5VW K50I(5) NA5N K5LE(3) WA5WHN N5ZN(2) KE5TC AF5Z WA5YFY K5NZ	+
N6XU(9) N6WG(2) K06KA(5) W6SIY(3) WE6W(7) WA6NAE(5) W6EMD(5) K6RPN AA6R(2) KF6CTA(2) W6SU(5) AC6KW(7) KN6YD W6ZH(3) KI60Y W6BAB(5) K6MW(3) WI6I W6EMT(2) N6VZ(4) WA6GER AD6AY(3) AC6LA(3) W6EV(3) N6GA KD6VIO(2) WA6HHQ K6VNX(3) W6SV N6KR	+
NQ7X(9) AB7TT(7) KU7Y(8) N7VE(8) W7QQQ(7) AB7TK(6) WW7Y(5) AB7ST(5) N7CTJ(3) W7SSM(4) N7GS(4) NQ7K(2) KI7MN N7CQR(2) AB7MY(7) KJ7YN W7GVN(2) AB70A(4) NI0A(3) KG7PV N7KT(4) KA7NOC(3) AB7GO WJ7H W7JDZ(2) N7MFB K7DBV	+
KA80KH(7) KC8EPA WQ8RP W8KC(2) K8DD(2) KB8MCZ WD8KQY K8CV(3) KB8AZ WA8GHZ	+
NF9K(3) WA9YLB W9UQB(4) N9DD(3) KB9IUA(3) N9KW(2) W9KVF(4) WA9PWP(2) AF9T(2) W9DZ NN9K	+
AL7FS(2)	+

VE3ELA(4) VE3JC VE5RC(6) VE7CQK(5) VE6GK(2)

Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

-----  
Date: Thu, 30 Oct 1997 18:32:20 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: n7kt@dancris.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [29954] Re: Norcal paddle notes  
Message-ID: <199710301832.SAA09600@chuck.dallas.sgi.com>

Roger,

A good idea. I did the same thing on my second one.

I clamped the base in a vice and did all six sides. Warning: the base will get very warm. I use heavy duty leather gloves for such work. Hey, these same hands are needed for keyboards and paddles. Protect them all times.

The RUST-OLEUM going on in small coats this time and it's smooth. When I first put on the primer, the only flying bug within a mile radius decided to use the base for a landing strip!! Why does that happen? Took an addition two coats of primer and steel wool to get rid of the skid marks. Terrible way to die and it was ugly and messy. What I call the visitor effect that others call Murphy's Law.

And all the sanding took less than 15 minutes, a much more reduced time than the four or five hours doing it by hand the first time.

The #60 grit worked well. It was almost beautiful enough to leave alone or cover with clear like Roger Hightower, N7KT did.

FYI  
Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

-----  
Date: Thu, 30 Oct 1997 13:45:31 -0500 (EST)  
From: WA8JPR@aol.com  
To: QRP-L@Lehigh.EDU



Subject: [29954] NEW E-MAIL ADDRESS

Message-ID: <971030134530\_324786820@mrin46.mail.aol.com>

AS OF THIS DATE, 10-30-1997, MAIL FOR ME ON THE QRP LIST SHOULD BE SENT TO WA8JPR@JUNO.COM I WILL KEEP THIS ADDRESS FOR 10 MORE DAYS SO CONFIRMATION CAN BE SENT TO EITHER ADDRESS.

THANKS WA8JPR

-----  
Date: Thu, 30 Oct 1997 14:53:38 -0500 (EST)

From: n4js@amsat.org

To: franzis@esun19.gdc.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [29954] RE: 38 Special cases

Message-ID: <XFMail.971030145706.n4js@amsat.org>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 8bit

MIME-Version: 1.0

On 30-Oct-97 Patrick Franzis typed:

> Has anyone ordered the case from Custom Enclosures? It looks  
> pretty nice and seems to include the off-board parts. I'm  
> looking for a small case for mine. I originally put it in a  
> Radio Shack case but it's just too large.

I have my 38S in one. It does NOT include off-board parts, but has a list of the part number from Rodio Shack, etc. Easy to find. It is a SUPER case. I don't think you could put the 38S in anything much smaller, and the case just LOOKS professional! I was going to put my Rainbow tuner in an Altoids tin, but am now anxiously awaiting the custom case for it to become available.

You can see my 38S on my web page.

73,

Sent at 14:57:05 on 30-Oct-97

John L. Sielke	n4js@amsat.org	n4js@pobox.com
n4js@qsl.net	NJ Grid:FM29LN	
<a href="http://www.qsl.net/n4js">http://www.qsl.net/n4js</a>		
NJ-QRP #57 QRP-L #884		
QRP-ARCI CQC #443 CQrp #50 AKQrp ARQrp		
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243		

-----  
Date: Thu, 30 Oct 1997 19:06:20 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [29954] NOVICE/TECH SCORES FOX  
Message-ID: <199710301906.TAA09831@chuck.dallas.sgi.com>

NOVICE AND TECH+ SCORES  
November 1, 1997

Total Number of Qs = 70

```
+-----+
+                               +
+          FOX SCORES          +
+                               +
+-----+

KB7MBI          11 + 16 + 16 + 14
KF4TRD   Mike      9
KF4HAW          4
```

```
+-----+
+                               +
+          HUNTERS SCORES      +
+                               +
+-----+
```

K0EVZ(5) W0CH KB0YSN(2) KB0ROL NOHJ KI0II(3) K0SU  
NI0A W0CLR KB0PTE K0ZK KB0ZDF KE0WW

N1QQV(2) AK1P WA1QVM K1HS

WZ2T K2VCO KC2CFZ

N3VXI N3XRV

N4SO(2) WB4EXW WD4MNM KU4AF(2) N4ROA AE4IC

KA5T(2) K5ON

KI6OY WE6W(2) K6MW

W7QQQ KI7MN N7XJW NQ7X W7SSM W7GVN KC7KHD N7VE  
KU7Y

W8KC WA8GHZ K8DD

W9UQB AF9T NN9K(2) N9KW(2) KB9IUA AA9UK

VE3ELA(4) VE5RC

Chuck Adams K5FO CP-60 adams@sgi.com  
<http://reality.sgi.com/adams/index.html>

-----  
Date: Thu, 30 Oct 1997 11:40:32 -0800  
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
To: qrp-l@Lehigh.EDU  
Subject: [29955] No Change in NorCal 2222 Contest Rules  
Message-ID: <3.0.1.32.19971030114032.00709450@telis.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Yesterday there were postings about suggested changes in the rules for the NorCal 2222 Contest. Several of you posted to the list and several sent private email to me. After careful consideration, the original rules will stand unchanged. But, we do need some kind of contest for Pacificon, so don't lose heart. We will all learn a lot from this exercise, which is the main purpose after all.

I must also say that I am quite impressed with the traffic on qrp-l lately. Everything is positive, it is fun to read. Keep it up guys. Thanks to Chuck and Jim for their efforts with the list.

Now we need some of the designers on the list to step forward and guide the rest of us through this. Give us some examples to study and build. I really liked Gary Surrency's suggestion of using sockets for transistors. A simple socket is a SIP inline strip. Just cut off 3 pins, and voila, instant transistor socket. Thanks to Denis Englander for the idea, who first used it as a crystal socket back in the 49er days. Keep the ideas going. DON'T work in secret, share, share, share.

72, Doug, KI6DS/M0BIV

-----

Date: Thu, 30 Oct 1997 13:26:49 -0500  
From: "Bob Kellogg" <ae4ic@nr.infi.net>  
To: <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29956] Re: 2222 Design contest questions  
Message-ID: <199710301943.0AA28271@mailhost.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Steve,

-----

> In the mean time, I just could not wait and already started. Was up till  
2  
> AM working on the first breadboard. I've already used 9 '2222's and  
haven't  
> built the VFO, audio amp or anything in the Tx section yet. At first, I  
> thought 22 transistors was more than enough, now I don't know.

Maybe you could get Doug to increase the limit to 222 or 2222 2N2222s.  
That would still be in the spirit of the thing and allow you and Chuck and  
a few others to really build a first class rig! :-)

CUL,

Bob Kellogg, AE4IC, Greensboro, NC  
Prolably, but not nececelery. -- Benny Hill

-----

Date: Thu, 30 Oct 1997 14:37:40 -0500  
From: "Bob Kellogg" <ae4ic@nr.infi.net>  
To: <adams@chuck.dallas.sgi.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29957] Re: NOVICE FOX SCHEDULE  
Message-ID: <199710301944.0AA32387@mailhost.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Chuck, You presented quite an impressive list of Novice Foxes!  
Congratulations to all of them for having the intestinal fortitude to  
volunteer. I look forward to working as many as possible.

72222,

Bob Kellogg, AE4IC, Greensboro, NC

Prolably, but not nececelery. -- Benny Hill

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-----  
Date: Thu, 30 Oct 1997 15:25:34 -0500  
From: "W. D. Lindsey" <70511.3041@compuserve.com>  
To: "INTERNET:ae4ic@nr.infi.net" <ae4ic@nr.infi.net>  
Cc: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [29958] Re: NOVICE FOX SCHEDULE  
Message-ID: <199710301528\_MC2-25B0-9CB8@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

Bob:

Yep I join you in this. These guys have all done a good job, and I for one am greatly encouraged by their good CW, good operating procedures, and attention to detail. Since they represent our shared future, I feel hopeful. More power to them. And let's do all we can to recruit and elmer.

Go, Novice/Tech Foxes!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ars 311 mn-qrp 19  
nj-qrp 69 ak/qrp 73 arci 9398 arrl was 48/409 dxcc 55/42 <><  
FOX total 10/30/97 = 10 of 11 & 7 of 8 N/T+ FOXes

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Icom 751a OMNI V Sierra Argo 515 Norcal 40a SW-40 49er  
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP Titan DX TNT/2  
Windom SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible but no simpler"--A. Einstein

-----  
Date: Thu, 30 Oct 1997 15:30:27 -0500  
From: "Christopher Moore" <christopher.moore@snet.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [29959] SS Logs  
Message-ID: <199710302033.PAA25757@midfire5.aetna.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

I'm confused about how to e-mail an SS log into ARRL. Reading the rules wasn't much help.

Does anyone have a record layout ? Do you send the file as an attachment?  
What do you put in the body of the message?

I don't need answers immediately, since we have 30 days after the contest to file.

TKs es 72 Chris W1GM

-----  
Date: Thu, 30 Oct 1997 13:03:48 -0500  
From: Stephen Gibson <SWGibson@worldnet.att.net>  
To: qrp-l@Lehigh.EDU  
Subject: [29960] "Black Widow" antenna  
Message-ID: <19971030203901.AAA8717@DEFAULT>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

For sale:

Cabela's "Black Widow" and W6MMA coil with instructions and mods.

Will ship for via UPS for \$35.

Steve WB4NBI

-----  
Date: Thu, 30 Oct 1997 15:51:37 -0500 (EST)  
From: Bob Patten <n4bp@shadow.net>  
To: QRP-L Reflector <qrp-l@Lehigh.EDU>  
Subject: [29960] N4BP ALC QRP Power Adjuster  
Message-ID: <Pine.SOL.3.96.971030154514.29748B-100000@goliath>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

At the request of a few QRP-L members, I drew up a schematic and notes for the ALC Power Adjuster that I built for my Icom 706MKII. I scanned it to a .JPG, sent it to those who asked me for it, and posted it on my web page. It is a simple circuit that should work with just about any QRO rig

to smoothly adjust its power within a range that you determine with  
trimpots. It is a crude drawing made on the back of a QSL card, but  
should be easy to read and implement.  
I left a copy of the .JPG in my home directory from where I can attach it  
to a message to anyone who wishes it from me in that manner.

73,

Bob Patten, N4BP ( 0 0 ) Plantation, FL  
-----o00o-( )-o00-----

E-Mail: n4bp@shadow.net  
Web Page: <http://www.shadow.net/~n4bp/n4bp.htm>  
Brass Pounder BBS: (954) 472-7715

-----  
Date: Thu, 30 Oct 1997 14:52:41 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: cqclist@lists.csn.net, qrp-1@Lehigh.EDU  
Subject: [29961] CQC Meeting Saturday  
Message-ID: <199710302051.NAA05823@bobcat.sni.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

For those of you who need a reminder and don't get your Low Down by  
tomorrow, the November Meeting is on Saturday the 1st, 10:00 am (MST)  
at the Castlewood Public Library, South Uinta St. and Arapahoe Rd.  
Map is available on the web site:  
<http://www.mtechnologies.com/mthome/cqc.htm>

The program will feature three senior ARRL officials-- Division  
Director and Vice Director, and Section Mgr., and will be a great  
opportunity to ask some "hard questions" if you're that way inclined.

73  
Marshall Emm  
N1FN/VK5FN  
n1fn@mtechnologies.com  
Milestone Technologies  
Software, kits, tools...  
<http://www.mtechnologies.com/mthome>  
(303)752-3382  
--

-----  
Date: Thu, 30 Oct 1997 15:58:42 -0500  
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>  
To: wb5rue@stic.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29962] Re: Resistor  
Message-ID: <3458F502.540F@quartz.gly.fsu.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

All of my LED lights run off of 2 AA cells. I think of the resistor as a current limiting device rather than as a voltage divider. Just pick a value to limit your current to something below what the device is rated at.

Henry

-----  
Date: Thu, 30 Oct 1997 14:08:57 +0000  
From: Roger Hightower <n7kt@dancris.com>  
To: qrp-l@Lehigh.EDU  
Subject: [29963] [Fwd: Flashlight Morse Story]  
Message-ID: <345894F9.3DDC041C@dancris.com>  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="-----4A2BE4DAE2F6F8C6DA66FC90"

This is a multi-part message in MIME format.

-----4A2BE4DAE2F6F8C6DA66FC90  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Anyone else to respond to Jim's message?

--  
72/73, de Roger, N7KT  
AK-QRP 167, ARCI 8946, CQC 176, GQRP 9081, NE-QRP 383, NORCAL 1099,  
QRP-L 62

-----4A2BE4DAE2F6F8C6DA66FC90  
Content-Type: message/rfc822  
Content-Transfer-Encoding: 7bit



Content-Disposition: inline

Return-Path: <japple@eps.inso.com>

Received: from eps-inc.eps.inso.com by dancris.com (8.8.5/DANCRIS-1.2)  
id MAA27574 for <n7kt@dancris.com>; Thu, 30 Oct 1997 12:57:26 -0700 (MST)

Received: from darkwing (darkwing [198.112.118.20]) by eps-inc.eps.inso.com  
(8.6.12/8.6.9) with SMTP id OAA22844 for <n7kt@dancris.com>; Thu, 30 Oct 1997  
14:54:48 -0500

Received: by localhost with Microsoft MAPI; Thu, 30 Oct 1997 14:57:57 -0500

Message-ID: <01BCE544.35129B80.japple@eps.inso.com>

From: jma <japple@eps.inso.com>

Reply-To: "japple@eps.inso.com" <japple@eps.inso.com>

To: "'n7kt@dancris.com'" <n7kt@dancris.com>

Subject: RE: Flashlight Morse Story

Date: Thu, 30 Oct 1997 14:57:56 -0500

Organization: Inso

X-Mailer: Microsoft Internet E-mail/MAPI - 8.0.0.4128

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Do you know how many ex submariners are on qrp-l ? I've seen a couple of  
other references, I think Paul Harden is one. I was on the SSBN 728,  
and would be interested and finding out how many qrp-l folks where in  
submarines.

7'trees

Jim Apple (WB1DOG) Inso <http://www.inso.com>  
jim\_apple@eps.inso.com

-----4A2BE4DAE2F6F8C6DA66FC90--

Date: Thu, 30 Oct 1997 15:38:56 -0600

From: "Mark A. Arvidson" <arvidson@swbell.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [29964] RE: Pixie2 Revision File

Message-ID: <01BCE54A.2400E3F0.arvidson@swbell.net>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Howdy, gang,

I finally got a quick (only a few hours work) web page put up to display Frank Matthews' (KC4FKX) Pixie2 Layout in a .gif file. It's at:

<http://www.geocities.com/capecanaveral/lab/3955/pixie2.html>

The site is, of course, always under construction. Perhaps I'll actually add more to it some day. :^)

Mark A. Arvidson, KB0SPQ  
arvidson@swbell.net

-----  
Date: Thu, 30 Oct 1997 15:45:53 -0600  
From: MHOOPER@ccmail.dsccc.com  
To: Roger Hightower <n7kt@dancris.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29965] Re:[Fwd: Flashlight Morse Story]  
Message-ID: <00136F91.3370@ccmail.dsccc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Mark Hooper, N5WEB  
USS Robert E. Lee SSBN 601,  
USS BANG SS385

-----  
Date: Thu, 30 Oct 1997 15:43:50 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: cqclist@lists.csn.net, qrp-1@Lehigh.EDU  
Subject: [29966] CQC Swap List  
Message-ID: <199710302143.0AA14872@bobcat.sni.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

The CQC Swaplist has been updated. Check it out on the web: <http://www.mtechnologies.com/mthome/cqc.htm>

Or email me to be put on the email distribution list.

Marshall Emm  
N1FN/VK5FN  
n1fn@mtechnologies.com  
Milestone Technologies  
Software, kits, tools...  
<http://www.mtechnologies.com/mthome>  
(303)752-3382  
--

-----  
Date: Thu, 30 Oct 1997 17:00:50  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@Lehigh.EDU  
Subject: [29967] 2222 design ideas  
Message-ID: <3.0.1.16.19971030170050.26c7601e@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Doug just asked us to share some of our ideas. This is good to a point, but if we share too many, we will all end up the same radio :-). Actually, that is not too likely, but many will be similar by the very nature of things.

If you want to go for a minimalist radio, something along the lines of the popular Pixie would be a good start. Here all you would have to do is build an audio stage, along the lines of the high gain DC coupled one already referred to in the handbooks and Solid State Design. It would not take much to drive a headphone, ouch. This type would fit in an Altodes tin.

For design ideas, if you can get a copy of the G-QRP Club Circuit Handbook, this is full of nice simple designs from the "transistor only" era. What few IC's are used are generally not available any more, so can't use those ideas anyway.

Personally, I'm taking a balanced approach. Balanced mixer, IF amp, product detector. This requires center tapped transformers and two transistors per stage, but you get more gain from fewer actual stages. The sensitivity of my bread board is fantastic, less than 0.1 uv.

The Tx will use the same idea, balanced mixer to mix the VFO and BFO to get the xmit frequency and push-pull output stage. Haven't decided what band to make it for, I'm leaning towards 40 since it's easier to make a stable VFO there, but Chucks 17 meter idea is a good one and I could use a 17 M radio anyway.

To quickly test ideas, I'm using the 1/4" squares of copper clad stuck to a

copper clad ground plain. I just cut the squares with the tin snips out of 1/32" board stock and use a rubber cement to tack them in place (can't find the hot glue gun) First time I've really tried this technique, and it does work good, but takes up a lot of space. Once everything is tried and true, I will lay out a proper pc board.

Lots of good stuff has already been posted. It's still a long winter ahead of us till Dayton, so plenty of time to develop this project. Wonder if QSL cards from using the radio will help? But what this contest is really about is to boost attendance at FDI. Seems to be working. I've already started a "Dayton" fund, so can afford to go again this year. Until this contest came along, wasn't really planning on going. Devious :-)

Gud Luck to all the Star Ship 2222 troopers!!!

72,  
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

-----  
Date: Thu, 30 Oct 1997 16:01:03 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qrp-l@Lehigh.EDU, cqclist@lists.csn.net  
Subject: [29968] New QRP Contest - Claiming the Date!  
Message-ID: <199710302200.PAA17915@bobcat.sni.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Stand by!

In the very near future, CQC is going to announce a new QRP contest. All I am at liberty to divulge is that it will be a three-hour event on Saturday evening, December 13th.

Complete details and rules will be posted here as soon as they are finalized, probably within a matter of a day or two.

73  
Marshall Emm  
N1FN/VK5FN  
n1fn@mtechnologies.com

Milestone Technologies  
Software, kits, tools...  
<http://www.mtechnologies.com/mthome>  
(303)752-3382  
--

-----  
Date: Thu, 30 Oct 1997 17:14:35 -0500  
From: "Bob Edwards, W4ED" <w4ed@flash.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29968] Re: Norcal 2222 Design Contest  
Message-ID: <345906CA.F4565DAD@flash.net>  
MIME-Version: 1.0  
Content-Type: multipart/alternative; boundary="-----  
D2D5F810904D4BF9DF6240C5"

-----D2D5F810904D4BF9DF6240C5  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Already having fun reading the postings & still haven't  
settled on my own set of specs or band(s).

Thanks Wayne & Chuck & NORCAL.

Anybody else download the latest PSPICE ?

It's a +16,000,000 byte file from <http://www.microsim.com/>  
This version is 32 bit, and expands into +36,000,000 bytes.

Older versions are still on the WWW for DOS or Win3.1

--

Bob 72/73

<http://www.qsl.net/w4ed>

W4ED nr Atlanta @EM73wt

...."QRP", more from less....

```
      /\
     /\ |
    /\ | \
   /\ |  \
  /\ |   \
 /\ |____\
[ \-----/
```

-----D2D5F810904D4BF9DF6240C5  
Content-Type: text/html; charset=us-ascii  
Content-Transfer-Encoding: 7bit

<TT>Already having fun reading the postings & still haven't</TT>  
<BR><TT>settled on my own set of specs or band(s).</TT><TT></TT>

<P><TT>Anybody else download the latest PSPICE ?</TT><TT></TT>

<P><TT>Older versions are still on the WWW for DOS or Win3.1</TT>

[illegible][illegible][illegible]

<BR><TT>~~~~~</TT>

-----D2D5F810904D4BF9DF6240C5-----

Date: Thu, 30 Oct 1997 13:55:49 -0800 (PST)  
From: Stanley Wilson <microres@crl.com>  
To: qrp-l@Lehigh.EDU  
Subject: [29969] Where are the 2N2222 Transceiver Rules posted ?

Message-ID: <Pine.SUN.3.91.971030135351.23815B-100000@crl8.crl.com>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Have the Rules been posted ?

-----  
Date: Thu, 30 Oct 1997 18:01:07 -0000  
From: "Bob Duckworth" <wb4mnf@atl.org>  
To: <bkassel@dancris.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [29969] Re: 2222 Design contest questions  
Message-ID: <199710302152.QAA19668@atl.org>

"why do we have to use the bow and stick to start our fire when we have  
a perfectly good Zippo?"

I think:

- 1) The challenge has been made and the rules set and that's  
the way we should play.
- 2) Some guys have been nice enough to put this thing  
together and we should thank them for their efforts.
- 3) If the rules change in the middle of the game (it has started  
hasn't it?) it's no fun.
- 4) If you have a contest in mind, offer to run the show for 1999.  
(Don't write to me about this, I'm only in charge of which  
leg goes in the pants first every morning:-)

-bob  
wb4mnf

PS, I got a little behind with the 'parts bonanza' and will be emailing  
winners this weekend or sooner.

-----  
Date: Thu, 30 Oct 1997 17:23:41 -0500  
From: bruce muscolino <w6toy@pop.erols.com>

To: QRP-L@Lehigh.EDU  
Subject: [29969] Sweepstakes - If I could do it last year you can do it this year!  
Message-ID: <2.2.16.19971030181540.2c6f2e26@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

For those of you who are contemplating entering the 1997 edition of the ARRL's Sweepstakes contest this weekend and who aren't sure of what to expect, I spent a bit of time doing an analysis of my 1996 Sweepstakes Log. I've presented the data below. Look at the performance and the station, and compare them with yours.

I once was an avid contester --But, I entered the ARRL Sweepstakes for the first time in 1996. My expressed goal was to work 100 stations and get a pin. When I got to 100 I decided I'd continue for a while longer. I made a total of 205 QSOs in 79 sections in just under 13 hours on the air. I only used 80, 40, and 20.

The rig was a TS130V feeding about a 60 foot longwire. I used a straight key and logged everything on paper. Very basic set up.

The breakdown of operating time vs sections and QSOs produced is interesting, to say the least. My operating time was divided into roughly 11 periods. The first was on 20; the next 5 were almost completely on 80 and the last 2 on 20. A summary of those periods follows.

Period 1:

Date: 11/3/96  
Start Time: 22:30  
End Time: 23:00  
Total Time: 0.5 Hour  
Band: 20  
QSOs: 4  
Total Sections: 4  
Net Sections: 4

Period 2:

Date: 11/3/96  
Start Time: 04:15  
End Time: 05:15  
Total Time: 1.0 Hour  
Band: 80  
QSOs: 12  
Total Sections: 12  
Net Sections: 12



Period 3:

Date: 11/3/96  
Start Time: 07:30  
End Time: 10:00  
Total Time: 2.5 Hour  
Band: 80  
QS0s: 40  
Total Sections: 38  
Net Sections: 19

Period 4:

Date: 11/3/96  
Start Time: 11:30  
End Time: 14:30  
Total Time: 3.0 Hour  
Band: 80  
QS0s: 49  
Total Sections: 18  
Net Sections: 14

Period 5:

Date: 11/3/96  
Start Time: 15:00  
End Time: 17:00  
Total Time: 2.0 Hour  
Band: 20  
QS0s: 27  
Total Sections: 15  
Net Sections: 10

Period 6:

Date: 11/3/96  
Start Time: 18:00  
End Time: 18:30  
Total Time: 0.5 Hour  
Band: 20  
QS0s: 4  
Total Sections: 4  
Net Sections: 1

Period 7:

Date: 11/3/96  
Start Time: 20:45  
End Time: 23:00  
Total Time: 2.25 Hour  
Band: 20  
QS0s: 33  
Total Sections: 25

Net Sections: 14

Period 8:

Date: 11/4/96  
Start Time: 23:45  
End Time: 00:00  
Total Time: 0.25 Hour  
Band: 40  
QS0s: 1  
Total Sections: 1  
Net Sections: 1

Period 9:

Date: 11/4/96  
Start Time: 00:00  
End Time: 01:30  
Total Time: 1.5 Hour  
Band: 80  
QS0s: 23  
Total Sections: 12  
Net Sections: 4

Period 10:

Date: 11/4/96  
Start Time: 01:45  
End Time: 02:15  
Total Time: 0.5 Hour  
Band: 40  
QS0s: 2  
Total Sections: 2  
Net Sections: 0

Period 11:

Date: 11/4/96  
Start Time: 02:15  
End Time: 03:00  
Total Time: 0.75 Hour  
Band: 80  
QS0s: 10  
Total Sections: 9  
Net Sections: 0

Notice that I only earned QS0 points in the last two sessions. That time might have better been used sleeping. IN fact, as far as my original goal went, I could have quit after period 5 and gotten a lot more rest. However, contests have a way of sucking you in!

I'm going to look at two more parameters before I wind up this informal analysis. That is where was the propagation during each operating period and how many states did I work per band.

At any rate, what's here should encourage almost anyone to take some time and give Sweepstakes a try. You'll be heard and the operators at the other end will work with you to get the QSO done. Good luck and see you there.

-----  
Date: Thu, 30 Oct 1997 17:24:04 -0500  
From: bruce muscolino <w6toy@pop.erols.com>  
To: fifield@pacbell.net  
Cc: QRP-L@Lehigh.EDU  
Subject: [29970] Re: Norcal 2N2222 Contest  
Message-ID: <2.2.16.19971030181604.242f0834@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Dave,

I've already said that using the 2N2222 is part of the challenge of the contest. Compromise for now and leave space to put in PNP's when you are through.

As far as kitting goes, I think DOug will probably kit the winning design(s) if they offer reasonable performance and can be made to work easily. I know I'll buy one (or more, if there are more), unless one of the is mine!

73

-----  
Date: Thu, 30 Oct 1997 17:32:58 -0500  
From: bruce muscolino <w6toy@pop.erols.com>  
To: QRP-L@Lehigh.EDU  
Cc: kd1jv@moose.ncia.net  
Subject: [29971] Re: 2222 design ideas  
Message-ID: <2.2.16.19971030182457.242f87ac@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>  
>Lots of good stuff has already been posted. It's still a long winter ahead  
>of us till Dayton, so plenty of time to develop this project. Wonder if QSL  
>cards from using the radio will help? But what this contest is really about  
>is to boost attendance at FIDM. Seems to be working. I've already started  
>a "Dayton" fund, so can afford to go again this year. Untill this contest  
>came along, wasn't really planing on going. Devious :-)

>  
Steve and gang,

Please be careful with references to FIDM. FIDM may be a thing of the past.  
It was a much misinterpreted and misused name.

For future and past reference -- The QRP Technical Conference cunningly held  
at a Dayton Hamvention near you IS NOT NOW, NOR NEVER WAS, NOR NEVER WILL BE  
a QRP ARCI event. It was the sole property of Bob Gohrick, myself, and the  
few dedicated souls we rung in to help. Yes Virginia, there will be a Third  
Annual QRP Technical Conference held at Dayton in 1998, and as the now sole  
editor, cook and bottle washer I would be pleased to entertain one or two  
"2N2222 Cookbook" type papers. If you or anyone else should be the design  
contest winner, your paper and work belong to NorCal first. I would hope  
Doug would give a bit of a lead with that info.

73

-----  
Date: Thu, 30 Oct 1997 17:34:19 -0500  
From: "HB Electronics (Bob Berlyn)" <hb\_elec@ids.net>  
To: qrp-L@Lehigh.EDU  
Subject: [29972] 2222 Design Contest Offer  
Message-ID: <3.0.1.32.19971030173419.006ac928@mail.ids.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Good Evening All,

In the spirit of the competition I make the following offer to any one from  
QRP-L, entering NorCal's 2222 design contest.

For the price of \$1.00 (US or Canadian)currency, coin, check, or stamps or  
any back issue of QRPp.

I will send you 22 transistors, twenty (20) PN2222, in a T0-92 (plastic)  
case and two (2) 2N2222's in a T0-18 (metal) case. All the transistors you  
will need for the design contest.

No shipping charges apply. Just send me a SASE business size envelope with a dollars worth of whatever to:

2222 Contest  
HB Electronics  
43 Rector Street  
East Greenwich, RI 02818

Happy designing and 72

Bob N1PWU QRP-L#161 East Greenwich, RI  
-----  
HB Electronics  
E-Mail: hb\_elec@ids.net  
On The Web: <[http://users.ids.net/~hb\\_elec/](http://users.ids.net/~hb_elec/)>

-----  
Date: Thu, 30 Oct 1997 16:54:37 -0600  
From: Ryan <ryans@willinet.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29973] Re: 2222 design ideas  
Message-ID: <3459102D.4A8D@willinet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I recently subscribed to this list, can someone point me to info on the NorCal's 2222 design contest, I'm unclear on what it is. Hopefully it has a web page? Thanks for any info.

On another note, I would like to get into QRP and build a radio, I've never heard of the pixie or anything similar until yesterday, is this a good beginner radio? Is there a good web page that details on building it? The hardest part for me would be getting the circuit board. Can this be ordered anywhere? I have no means to make my own. Thanks very much.

Ryan  
-----

Date: Thu, 30 Oct 1997 15:06:02 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: ryans@willinet.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29974] Re: 2222 design ideas  
Message-ID: <345912DA.2E9A@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Wa-Hoo! We've nabbed another QRP'er!

FB on joining QRP-l Ryan.

Pixie2 information is available on many pages.

Check out my webpage and also some others as linked.

<http://www.qsl.net/we6w>

Welcome to qrp-l om.

-Ed Loranger,we6w

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8,OHR-100, Pixie2, Johnson Viking II, Drake TR-3

QRP-L#1068,ARCI#9397,Norcal#2227,ARS#275,AR#112 grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Thu, 30 Oct 1997 16:21:33 -0700 (MST)  
From: Bob Hightower <ki7mn@dancris.com>  
To: qrp-l@Lehigh.EDU  
Subject: [29974] Re: Armadillo scoring  
Message-ID: <199710302321.QAA17288@dancris.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

OK, guys, I got this from OJ in response to a question about scoring the 'diller chase:

>Hi Bob,

>S/P/C mults count once per band...so the same station on different bands

>will count for 2 S/P/C mults. Names and bonus points count once over

>all.

>OJ

>  
>

73,

Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP  
ARCI #8918, AK QRP #30, not in any order of importance.

33.334500N -111.87260W

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=19 30=19 17=0 12=0 States=15/0/0 DX=0/0/0 QSL's=7

-----  
Date: Thu, 30 Oct 1997 18:27:07 -0400  
From: "Steven Pituch" <n2mnn@spacegate.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [29975] FOX: N/T Fox Tonight  
Message-ID: <0128d5725231ea7NS@spacegate.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Just a friendly reminder.

I am N/T Fox tonight between 01:00 and 03:00 UTC, 7.141. Call is W2MBY.

72,

John, W2MBY

John Pituch N/T Fox W2MBY (ex KC2CFZ)  
Steve Pituch W2MY (ex N2MNN)

-----  
Date: Thu, 30 Oct 1997 16:42:21 -0700 (MST)  
From: Bob Hightower <ki7mn@dancris.com>  
To: adams@chuck.dallas.sgi.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [29976] Re: NOVICE/TECH SCORES FOX  
Message-ID: <199710302342.QAA19348@dancris.com>  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 07:06 PM 10/30/97 GMT, you wrote:

```
>
>
>         NOVICE AND TECH+ SCORES
>         November 1, 1997
>
```

Whoaaa! I see the rules allow for more contacts this year. Great! More nights in the shack :^)

73,  
Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP  
ARCI #8918, AK QRP #30, not in any order of importance.  
33.334500N -111.87260W  
<http://www.dancris.com/~ki7mn>  
WIMPS: QSO's=19 30=19 17=0 12=0 States=15/0/0 DX=0/0/0 QSL's=7

-----  
Date: Thu, 30 Oct 1997 15:49:13 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29977] Browser TIMEZONE Variable...  
Message-ID: <34591CF9.6E94@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang, On this UNIX machine I must set/export these timezone variables whenever there is a time chage. (Daylight savings, etc) This is a NETSCAPE control variable and may be different for different platforms. I only change twice a year.

Anyway, right now I'm back to PST. Maybe some of you need to reset your timezone variable, so just a reminder.

Hope this helps someone...

-Ed Loranger

```
export TZ=PDT7
export TZ=PST8
```

--



72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8, OHR-100, Pixie2, Johnson Viking II, Drake TR-3  
QRP-L#1068, ARCI#9397, Norcal#2227, ARS#275, AR#112 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
End of QRP-L Digest 894

\*\*\*\*\*  
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